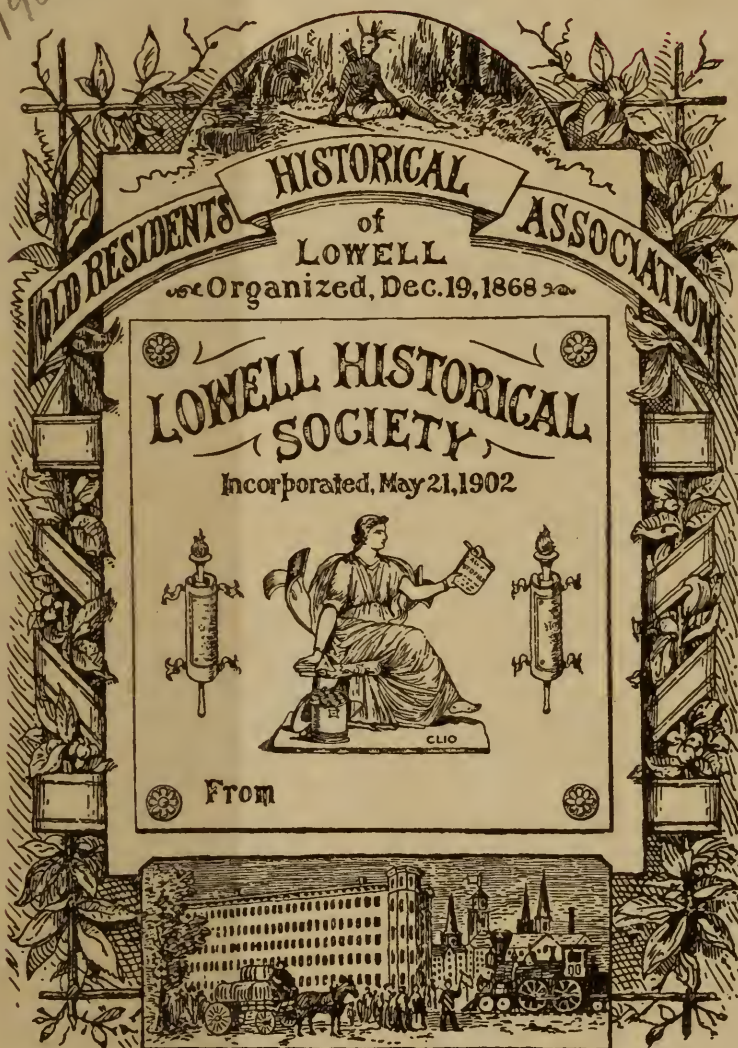


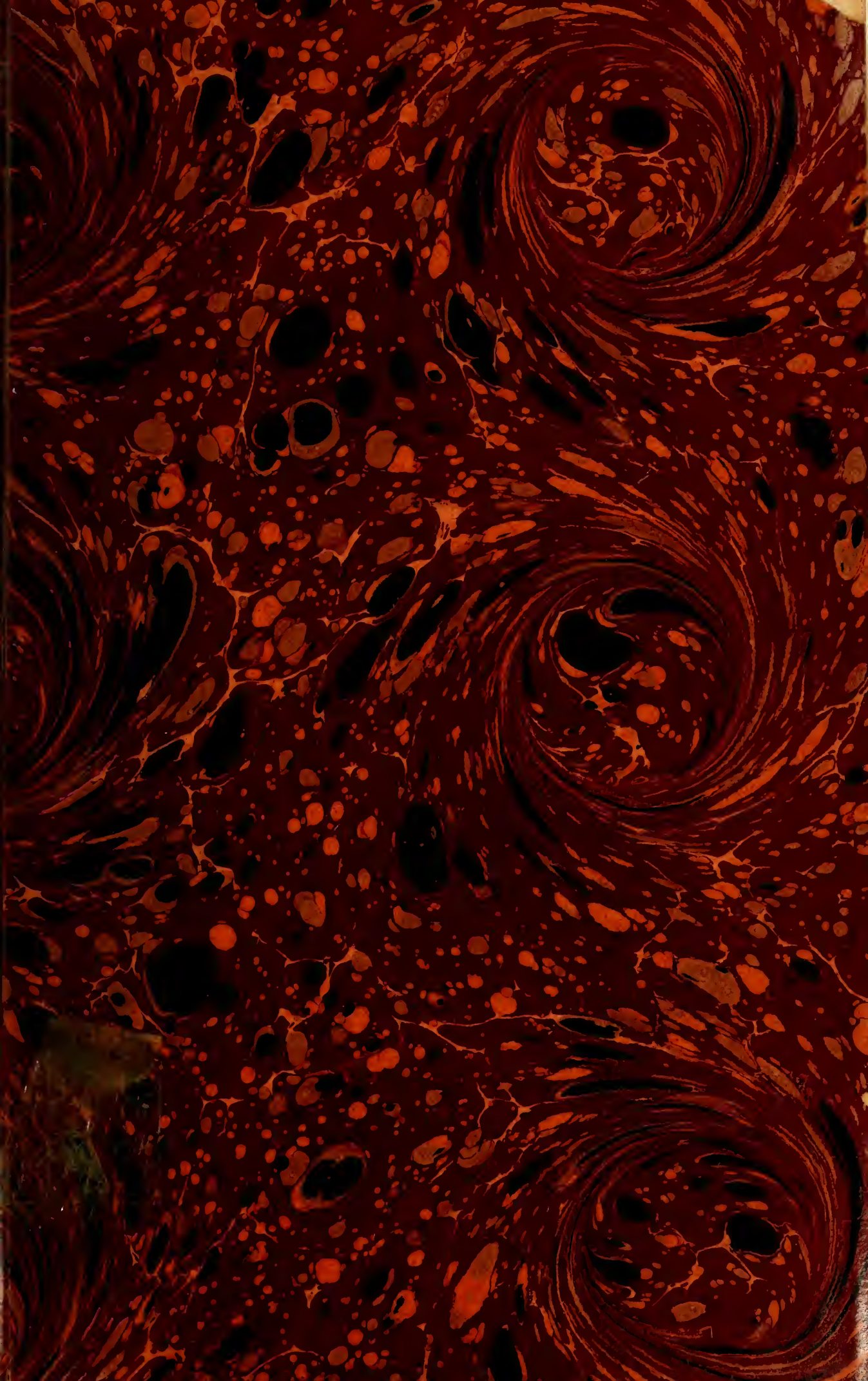
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CITY DOCUMENTS  
OF THE  
CITY OF LOWELL,  
MASSACHUSETTS,  
FOR THE  
YEAR 1900 - 1901.



LOWELL, MASS. :  
COURIER-CITIZEN CO., PRINTER.  
1901.

# EXTRACT FROM THE ORDINANCES OF LOWELL.

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## CHAPTER VIII.—CITY DOCUMENTS.

SECTION 5. All City Documents (except the Rules and Regulations for the Government of the Police and Fire Departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

SECTION 6. All City Documents shall be bound together in one volume, under the direction of the City Clerk, and three or more copies shall be placed in the City Library, and one copy in the library of the Middlesex Mechanics' Association, one copy shall be sent to each City of the Commonwealth, to the library of the Harvard College, the Public Library of Boston, the State Library, the Smithsonian Institute at Washington, and the Old Residents' Historical Association of Lowell.



# CONTENTS.


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1. Inaugural Address of His Honor, Charles A. R. Dimon, Mayor, to the City Council, Jan. 7, 1901.
2. Municipal Register, containing Rules and Orders of the City Council, and a list of the Government and Officers of the City of Lowell, for 1901.
3. Seventy-Fifth Annual Report of the School Committee of Lowell, together with Thirty-Seventh Annual Report of the Superintendent of Schools, 1900.
4. Auditor's Sixty-Fifth Annual Report of the Receipts and Expenditures of the City of Lowell, together with the Treasurer's Account, and the Account of the Commissioners of Sinking Fund, for the financial year ending Dec. 31, 1900.
5. Twenty-Seventh Annual Report of the Lowell Water Board, and Reports of the Superintendent of Water Works and the City Engineer to the Water Board, for 1900.
6. Report of the Committee on Appropriations, 1901.
7. Report of the Overseers of the Poor, with the accompanying papers, 1900.
8. Reports of the Births, Marriages and Deaths, 1900.
9. Report of the Board of Health, 1900.
10. Report of Superintendent of Streets, 1900.

11. Report of the Chief Engineer of the Fire Department, 1900.
12. Report of the Superintendent of Street Lights, 1900.
13. Report of the Board of Police, for the year ending June, 1901.
14. Report of the Trustees of the City Library, 1900.
15. Report of the City Solicitor, for the year ending Feb. 28, 1901.
16. List of Jurors for the year 1901.







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ADDRESS

OF

Hon. Charles A. R. Dimon

MAYOR OF LOWELL,

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January 7th, 1901.

LOWELL, MASS.:  
THE LAWLER PRINTING COMPANY.  
1900.



ADDRESS  
OF  
Hon. Charles A. R. Dimon,  
MAYOR,  
TO THE CITY COUNCIL,  
JANUARY 7TH, 1901.

TO THE GENTLEMEN OF THE CITY COUNCIL:—

With a full appreciation of the solemn oaths we have just taken, united, earnest, conscientious endeavor for the best interest of the whole city during the year to come, will be our best tender to the citizens of Lowell of our appreciation of the honor and confidence they have placed in us in allowing us to assume the direction of their municipal affairs.

It has been customary, and is called a "time-honored custom" for the incoming mayor to present an inaugural address, and I will attempt to do so, but will be pardoned if I suggest that at this time, I consider a more appropriate paper (before the new city government has taken the oath) would be a valedictory by my very



worthy predecessor, with official reports of the accounts of heads of departments for the year 1900, our financial standing, and recommendations from his experience of two years as to needed reforms.

It is impossible for the mayor just coming into office to do justice to municipal conditions by address, without some previous experience as executive, and I can only give statistical reports as I find them, and suggestions as to the future, and I respectfully solicit your consideration of the same.

Under our present municipal laws, the mayor has only the privilege of suggestions, nominations in a few cases (subject to the approval of your honorable bodies) and, as executive, the duty to see that the laws are enforced. While he can legally remove or suspend, for cause (subject to your approval), he can only appoint in cases of death or other emergencies, to fill vacancies temporarily, and then only when the assistant superintendents fail in, or neglect their duties. This opinion is based upon legal advice.

We must meet our defective charter and conflicting ordinances as we find them, and legislate, notwithstanding their errors, for the best interests of our people, and endeavor to remedy where we can.

My suggestions are as follows:

Appoint as soon as possible, a committee of the city council and citizens to draw up a revision of the present charter and ordinances, and after approval by the city council, present a petition to the state legislature for

its adoption. This should be done at once in order to claim a place for their official action this year, and funds should be appropriated to pay for the time and best auxiliary talent of our citizens to accomplish this result.

There is now an unbusinesslike want of necessary knowledge by the representatives of the people in our city council as to the detailed expenditures of money by heads of departments. I would advise the most careful consideration by the appropriation committee of estimates as sent in by department heads as, after the report of that committee is accepted and adopted, and money appropriated, without conditions, you are powerless in most cases to control its expenditures.

I would suggest to the appropriation committee that they oblige all departments in their estimates to subdivide their wants in more specific detail. When a bulk sum is asked for "labor" in any department, that sum should be as far as practicable, sub-divided to the satisfaction of the committee.

I think it would be well for the council to make a rule that all papers relative to loans and transfers be referred first to the appropriation and finance committees. By this means, the committee and council can keep better in touch with the expenditures through the year, and correct abuses if needed.

It will take more time and clerical work by the departments, and more time and attention by the council, but I am of the opinion that it will all pay in the end.

The appropriations for the year should determine the bulk of the tax rate, and loans should be discouraged except in cases of emergency.

It may be said that it is impossible for the appropriation committee to provide for growing needs, sewers, sidewalks, new streets, etc., etc., not anticipated, and I would recommend that a certain sum consistent with our city's finances, be accredited to each department for "permanent improvement" after a detailed estimate by the city engineer. This sum to be what the committee might find to be a fair average for a city of our size, and that beyond the amount appropriated for "running expenses, extraordinary expenses, and permanent improvements," no more shall be allowed. They can easily estimate a generous amount for new sewers, sidewalks, new streets, and emergencies, without being too parsimonious.

This policy may result in adding a few cents to our tax rate for one or two years, but we had better meet it now bravely and face it, and put the city financially upon a strong basis, than to go on by yearly loans, discrediting our collateral and borrowing power.

The usual excuse for loans for improvement is—"Let the future generations pay for them." I think this is fallacious now, unless for imperative needs, and under our present financial condition, no extensive permanent improvements for "future generations" should be made this year. No city in Massachusetts of our size, has poorer streets. Nearly every city has adopted some kind of smooth paving. We should do the same, and appro-

priate each year, a certain amount for that kind of pavement, and instead of experimenting with new kinds at great cost, take some other city's experienced adoption, and gradually put the expense into the tax rate, for street improvements.

If exigencies arise during the year, requiring a greater expenditure for "extraordinary expenses," then the question can be met by this council and the necessities thoroughly discussed, and acted upon by your honorable board, always bearing in mind that our loan system is the bane of our financial condition.

I may be pardoned if I offer the opinion that the state of our city's finances is not exactly upon a business basis, and I think that more frequent consultations between the Sinking Fund Commissioners, the Finance and Appropriations Committees, would tend to improve results in these directions.

We owe for past permanent improvements, a debt, and so much money is raised each year on taxable property to reduce that debt, but little encouragement can be expected in that endeavor if our temporary and new loans, and interest thereon for necessary and doubtful measures decreases our power of reducing them.

As a practical illustration the net ordinary debt exclusive of the Water Department in 1890 was \$991,561.64, and net ordinary debt January 1st, 1901, was \$2,230,257.37. This increase may be accounted for by loans for new City Hall, Memorial Building, High School, Boulevards, Palmer Street, and extensions of new streets, and other



almost innumerable so-called improvements, some no doubt wise, others doubtful.

The question that occurs very naturally to every citizen will be, has our increased growth as a city in wealth, or increased population, or increased valuation, and necessarily our power of legitimate taxation, warranted this increase in debt? If you think not, then something is wrong financially, and we should call a halt on loans, except for actual necessities, until we can recover and reduce this debt.

Our total assessed valuation of personal property, 1890, was	\$17,037,462
Total assessed valuation of real estate, 1890, was .....	45,316,150
	<hr/>
	\$62,353,612
In 1900 the assessed valuation of personal property, was	\$15,497,630
In 1900 the assessed valuation of real estate was .....	56,031,885
Total valuation non-resident bank shares .....	921,840
	<hr/>
Total City valuation in 1900 was .....	\$72,451,355

As a comparison between our per capita debt January 1st, 1890:

January 1st, 1890, the debt was .....	\$2,136,117.49
Population in 1890 was 77,696, or debt per capita of \$27.44 for each inhabitant.	
January 1st, 1901, the net debt was .....	\$3,217,731.17
Population in 1901 was 94,969 or debt per capita of \$33.67 for every inhabitant in Lowell.	

As an illustration of whether our wealth has increased in proportion to our debt:—

In 1890, the per capita wealth was \$815.44 for each inhabitant.  
Population in 1890, 77,696.

In 1900, the per capita wealth was \$763.20 for each inhabitant.  
Population in 1900, 94,969.

As another object lesson, our distance from limit of indebtedness under the law, (and which really represents our credit as a city) was in

1890, January 1st.....	\$443,907.11
1901, January 1st.....	183,054.94

Certain taxes are rendered permanent for the purpose of paying the interest of the funded debt. This produces more than enough for this purpose, and the surplus is supposed to be laid aside that it may accumulate into a fund for extinguishing this debt, but you will observe that during the wiping off, if any new debt has been created to about the same extent, then the city is in just the position in which it would have been had it neither borrowed nor repaid.

If we lay aside a certain amount to pay the funded debt, that fund accumulated at compound interest will pay back the debt in a certain number of years, but with constant accumulation of new loans bearing interest,—do we increase or diminish our general liabilities?—If the former, our debt and interest account will necessarily continue to be such a burden as to discourage investments and retard our growth as a manufacturing city and investors will look more to our financial credit as a city than to a record of a temporary high tax rate for economical purposes. Our very life as a manufacturing city depends upon the inducements we hold out to capital to locate here.

These thoughts are given very respectfully for the favorable consideration of the council and committees named above. Certainly, these suggestions must effect our financial standing as a city of the United States, and should be very thoroughly considered by the gentlemen of this board before entering into further indebtedness, and if so considered and acted upon, may be instrumental in bringing about the "Pay-as-you-go" policy recommended in the platforms of both of the political parties in the late municipal campaign.

As an argument against extensive loans and in relation to our financial condition, there are a great many of our citizens who by education and experience, perfectly understand the technical phrases used in the "Annual Financial Report," and a greater number who feel that the compilation of these figures means something beyond their comprehension, and take all for granted. I am assuming a great task when I attempt to reduce this statement down to a plain, practical, business explanation.

The good or bad credit of Lowell depends upon the will or disposition of every tax-payer, and the action of this honorable body. The money which we have borrowed would not have been loaned except upon the confidence of moneyed men that our citizens would repay the loan. For example: If the citizens should decline to pay their taxes in a body, then the property of any citizen can, by law, be attached or seized by the holders of our notes and bonds. Every citizen is a debtor in

this regard, and gives in the name of the city, a pledge to redeem the notes and bonds we have given, and therefore should be personally interested in the accumulation of our loans.

As a business proposition to every resident, tax-payer, and debtor, the question will occur,—“What do we owe?”—and, “What have we to pay it with?” No party has loaned us money without some security. In years past, in order to make Lowell the great city it is, and provide for our wants, certain permanent improvements were voted, for your benefit and that of coming generations, and money was borrowed to meet these expenses, such as water works, public buildings, commons, streets, etc. For this money borrowed, we agreed to pay the lender a certain amount per year for interest; we also agree to tax the people each year for payment on account of principal toward reducing the main debt. The only security the lender had, was our official promise to pay by taxation of our citizens.

This, in fact, simply explains the whole system of our state and municipal borrowing condition.

If, gentlemen, by your action, in borrowing this year for any purpose other than actual necessities, you increase our taxes and reduce borrowing power, and discredit our collateral, then you are placing the city as a business man would be placed upon the verge of bankruptcy. We can still continue to borrow, but increased collateral will be required in the way of a larger rate of interest and increased taxation, and this the people



will not stand, and look to us for some remedy. I would respectfully advise keeping our expenses down to the lowest possible limit, consistent with actual requirements.

I would respectfully call your attention to legislation which will come before the General Court this term in regard to authorizing cities to build and own conduits for the wires of Electric Light and Electric Power Companies and Telephone and Telegraph Companies. The advantages of such a law are obvious, and I will call your attention again to this matter.

Until the present charter and ordinances are revised, it would be useless for an executive to take up your present time with further suggestions, as his power at present is so limited, but I shall take occasion during the year to offer advice as I see the wants of the city require, and shall ask for your earnest consideration.

For your information and that of the public, I submit abbreviated statistics from some of the Departments that will be of interest.

### SINKING FUNDS.

The full valuation of all sinking funds January	
1st, 1901.....	\$607,749.12
Increase during 1900.....	39,793.58

### PAUPER DEPARTMENT.

Cost of out-door relief for 1900.....	\$55,339.82
City Farm for 1900:—	
Bills.....	43,570.79
Pay Roll.....	12,460.64
Total .....	<u>\$56,031.43</u>

## WATER BOARD REPORT.

Balance January 1st, 1900 .....	\$ 30,616.99
Receipts, 1900.....	209,386.09
Total.....	<u>\$240,003.08</u>
Expenditures, 1900.....	201,796.75
Balance, January 1st, 1901.....	<u>\$38,206.33</u>

## Driven Wells:—

Appropriation.....	\$75,000.00
Expenditures, 1900.....	<u>57,670 27</u>
Balance, January 1st, 1901.....	<u>\$17,329.73</u>

## HEALTH DEPARTMENT.

Total population, '900.....	94,969
Total number of deaths .....	1,848
Death rate, smallest since 1879.....	19.45
Deaths from diptheria, smallest number since 1891.....	27
Deaths from scarlet fever, none. Never equalled since Lowell's incorporation.	
Deaths from measles .....	1
Deaths from typhoid fever, smallest number since 1865	17
Small pox cases, 23. No deaths.	
Smallest number of deaths from contagious diseases since 1845, fifty-five years.	

## SCHOOL DEPARTMENT.

The School Department owns 48 buildings for day schools and four for evening schools, or 52 in all, with a valuation of \$1,607,000. It gives employment to 288 elected, and 47 temporary and substitute teachers in day schools, 135 in High and Elementary Schools, and 22 in the evening drawing schools, at an annual expense of salaries alone of \$226,000. For the 12,658 pupils enrolled in day schools, and more than 4000 others en-

rolled in evening schools all added largely to the expense, which, last year, aggregated \$275,330.31. Your attention will be called to the full report from the Superintendent of Schools to be published hereafter.

This same remark will apply to the Purchasing Agent's Report.

## AUDITOR'S REPORT.

### NET ORDINARY DEBT.

January 1st, 1885. ....	\$1,242,681.77
“ “ 1886. ....	1,073,281.66
“ “ 1887. ....	956,125.43
“ “ 1888. ....	861,420.78
“ “ 1889. ....	935,197.65
“ “ 1890. ....	991,561.84
“ “ 1900. ....	2,552,688.10

City Hall, Memorial Building, High School, Boulevard, and Palmer Street responsible for large increase.

January 1st, 1901. ....	\$2,230,257.37
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### NET WATER DEBT.

January 1st, 1885. ....	\$1,417,372.32
“ “ 1886. ....	1,378,442.04
“ “ 1887. ....	1,319,005.58
“ “ 1888. ....	1,263,749.30
“ “ 1889. ....	1,191,160.17
“ “ 1890. ....	1,144,555.65
“ “ 1900. ....	956,176.65
“ “ 1901. ....	987,473.80

## DISTANCE FROM LIMIT OF INDEBTEDNESS.

January 1st, 1888.....	\$475,066.23
“ “ 1889.....	444,663.03
“ “ 1890.....	443,907.11
“ “ 1891.....	572,226.43
“ “ 1892.....	583,959.67
“ “ 1893.....	421,326.48
“ “ 1894.....	345,700 18
“ “ 1895.....	233,972.05
“ “ 1896.....	246,856.38
“ “ 1897.....	66,387.72
“ “ 1898.....	189,057.26
“ “ 1899.....	67,370.33
“ “ 1900.....	102,362.02
“ “ 1901.....	183,054.94

For further report of the City Auditor, see his printed statement of December 31st, 1900.

## REPORT OF CITY ENGINEER.

GEORGE BOWERS, ESQ.

## ROADS AND BRIDGES.

During the past year seven streets have been laid out and accepted. Since the City Council has adopted the rule requiring abutters to grade streets before they will be accepted by the city, the number of streets accepted each year is much smaller than formerly. The extension of Arch Street to Middlesex Street is a great improvement, the change of location at Middlesex Street making it possible to do away with a very dangerous railroad crossing with no inconvenience to public travel through the street. The Boston and Maine Railroad Company paid all the land damages for this work.



Aiken Street has been extended from Ford Street to Merrimack Street, the total cost being \$38,104. This street has been graded and sidewalks partially laid, but it has not been covered with any pavement or surface material.

Bridge Street, from Thirteenth Street to Billings Street, on the easterly side, and from Thirteenth Street to Eighteenth Street on the westerly side, has been paved with granite blocks with a concrete bicycle path on each side the surface paved with granite is 4738 square yards. On a considerable portion of this street the old granite blocks were used which were removed from Market Street to make way for smooth pavement. Jackson Street has also been paved with granite blocks from Revere Street to King Street, the amount of pavement laid being 1123 square yards.

Market Street, from Central Street westerly 722 feet, has been paved with Trinidad Lake Asphalt. The sidewalks were of such poor quality that it was necessary to build new ones in order to properly pave the street. The cost of paving and sidewalks was \$12,909.37.

Twenty-two streets have been macadamized at a cost of \$21,277.66.

Sixty-five streets have been graded at a cost of \$12,857.61.

3360 square yards of concrete sidewalks and 9661 feet of edgestones have been laid, at a cost of \$6,012.49.

8769 square yards of sidewalks have been repaired at a cost of \$3,394.28.

Pawtucket Bridge was condemned last year, since which time no street cars have been allowed to cross it and all other travel has been restricted, so as not to overload the bridge.

The Aiken Street Bridge was put into adjustment, thoroughly scraped and painted, and an entire new floor laid; this bridge had been badly neglected, thus requiring this large amount of work.

The condition of the Lawrence Street Bridge over Concord River is such as to require the building of a new bridge, or a thorough repairing of the present structure this year.

#### SEWERS AND DRAINS.

During the year 1900, nineteen sewers have been built at a cost of \$27,625. Of these, the most important is the one under the Concord River at Rogers Street; this sewer has long been needed and does away with emptying of sewage into the Concord River here, thereby adding greatly to the healthfulness of this vicinity. Next in importance is the Woodward Avenue sewer now in process of construction, and on December 31st, 1900, \$39,000 had already been expended on it. This sewer, when completed, will receive the sewage of the Lowell General Hospital, thus relieving a condition which had become dangerous to that institution; it will also furnish a main drain for a large section of land between the Mammoth Road and Varnum Avenue.

All the smaller sewers asked for last year have been built, so that at the present time it does not appear that many more will be needed this year.

Some system of sewerage for the necessities of the people residing at the Oaklands should be considered at once. Taking Oaklands and Boylston Park, there are now 93 houses, 386 people and 1 schoolhouse, without proper means of taking care of their sewerage. It is now allowed to run in dead-wells, that soon overflow, or on to the surface of the land.

CHAS. A. R. DIMON,

*Mayor.*

MUNICIPAL REGISTER

CONTAINING

RULES AND ORDERS

OF THE

CITY COUNCIL

AND A LIST OF THE

GOVERNMENT AND OFFICERS OF THE CITY OF LOWELL

1901



LOWELL, MASS.

COURIER-CITIZEN COMPANY, PRINTERS

1901





# JOINT RULES AND ORDERS OF THE CITY COUNCIL

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1. In the month of January, and not later than the second regular meeting after organization of each branch of the City Council, joint standing committees shall be appointed as follows:

A COMMITTEE ON CLAIMS.

A COMMITTEE ON EDUCATION.

A COMMITTEE ON FIRE DEPARTMENT.

A COMMITTEE ON LANDS AND BUILDINGS.

A COMMITTEE ON MILITARY AFFAIRS.

A COMMITTEE ON ORDINANCES AND LEGISLATION.

A COMMITTEE ON PRINTING.

A COMMITTEE ON STREETS.

A COMMITTEE ON COMMONS.

A COMMITTEE ON INDUSTRIES.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chair-

man; on the Committee on Finance, the member first named in the Common Council shall be chairman; and in all joint special committees, the member first named in the board where the business originates shall be chairman, and shall call the committee together.

4. Reports of committees shall be made to the board first meeting after such reports are prepared and signed.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee (the Committee on Streets excepted) to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed ordinances; the enacting clause of which shall be—Be it ordained by the City Council of the City of Lowell, as follows: In all votes by which either or both branches of the City Council express anything by command, the form of expression shall be, Ordered, and whenever either or both branches express opinions, principles, facts or purposes, the form shall be, Resolved.

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to the Joint Standing Committee on Ordinances and Legislation, and then sent to the other branch for concurrence. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next

be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceedings shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council, and be sent to the Board of Aldermen, where it shall take a like course. If passed to be ordained in that board, it shall be signed by the Chairman of the Board of Aldermen and sent to the Mayor for his approval.

9. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day. Each board shall transmit to the other all papers on which any ordinance, joint resolution, or order shall be founded; and all papers on their passage between the two boards, shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officers. If papers come before either board which have been duly acted upon in the other board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.

10. All enrolled ordinances shall be written in a fair and legible hand, or typewritten, provided a permanent record ribbon is used, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

11. Every joint resolution shall be read in the board in which it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed, it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be presented to the Mayor for his approval, and when the same shall be in force, shall be enrolled by the Clerk of the Common Council, and when found correctly enrolled as provided in the case of an ordinance, it shall be signed by the President of the Common Council and the Chairman of the Board of Aldermen, and be presented to the Mayor for his signature if he approved the original.

12. Joint orders shall require but one reading, and when adopted, shall be sent to the Mayor for his approval, except when they relate to a question of a convention of the two branches, or the election of any officer.

13. When either board does not concur with the other in any ordinance or resolution sent from the other, notice of such non-concurrence shall be given by a written message.

14. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

15. All reports and other papers submitted to the City Council shall be written in a fair hand, or typewritten, provided a permanent record ribbon is used, without endorsement, except in case of the introduction of an order or resolution. In such a case,



the member introducing an order or resolution shall subscribe his name at the bottom of the back of the same. All other endorsements upon the back of papers shall be made by the clerk; and the clerks of the boards respectively, shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

16. No business shall be transacted by the City Council in convention, except such as shall have been previously agreed on, unless by unanimous consent.

17. In balloting in joint convention, blanks shall be reported but not counted as votes.

18. When both boards are in session at the same time, neither shall adjourn without giving notice to the other of its intention.

19. All petitions, reports, or other papers of whatever description, relating to business requiring the concurrent action of both boards of the City Council, shall be submitted by committees to the clerk of each board at least twenty-four hours before the time of meeting of either board, and the clerk of each board shall prepare a brief synopsis of all matters to be acted upon, and place the same on the desk of each member of the City Council prior to the hour of opening the meeting. No reports or orders not previously furnished as herein described, shall be considered in either branch unless two-thirds of the members present consent thereto.

20. These rules may be suspended for a specific purpose, or amended, whenever twenty-four members of a joint convention



of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and eighteen members of the Common Council.

21. No resolution for the extension and laying out of any street or public highway shall be passed to a second reading by either branch of the City Council until the city civil engineer shall certify to the council that said street or highway is fully completed, and graded to the grades named in the resolution, without expense to the city.

22. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or the appropriation of the public moneys, or involving any debt or liability, and such vote shall be entered upon the records of each branch of the City Council.

23. Less than a quorum of each branch of the City Council may adjourn to a fixed day earlier than the regular meeting, and shall have power to compel the attendance of all absent members in such manner as the City Council may by ordinance provide.

24. In the absence of rules governing both boards of the City Council, Cushing's Manual shall decide the point.

# RULES AND ORDERS OF THE BOARD OF ALDERMEN

---

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows:

First.—At all regular meetings the journal of the last regular meeting and all intervening meetings of the board shall be approved without reading, unless the reading be called for by some member of the board.

Second.—Petitions and similar papers.

Third.—Appointments, elections, etc.

Fourth.—New business, which, unless otherwise ordered, will take its place at the foot of Orders of the Day.

Fifth.—Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common Council and such matters as have been introduced as new business. By a vote of six members, any matters in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to

put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote; and on a demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall have precedence in the foregoing order, and debate upon any of them shall be confined to the actual motion, and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration, to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration, to be acted upon at the next meeting, which latter motion shall have priority, if made before the motion first mentioned shall have been decided. Provided, however, that no motion of reconsideration made by a member voting with the minority shall be received on any subsidiary or incidental question. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake; nor shall there be any conversation among the members while a paper is being read, or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January the following committees shall be appointed:

A COMMITTEE ON BILLS IN SECOND READING.

A COMMITTEE ON ELECTRIC WIRES.

A COMMITTEE ON ENROLLMENT.

A COMMITTEE ON LICENSES.

A COMMITTEE ON LIGHTING STREETS.

A COMMITTEE ON SEWERS.

A COMMITTEE ON WEIGHTS AND MEASURES.

A COMMITTEE ON STATE AID.

The committees on Licenses, on Sewers, and on Electric Wires shall consist of three members each; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission, if his presence is necessary to make a quorum.

10. The clerk shall prepare, for the use of the board, a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee the question shall first be upon a standing committee of the board, then a special committee, then a joint standing committee, and last a joint special committee.

12. These rules may be amended or suspended whenever two-thirds of the members present may so vote; but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All nominations shall lie on the table three days at least before action thereon by the board.

14. All papers, of whatever description, which may require action by this board, shall be presented to the City Clerk not later than the hour of noon on the day of each regular meeting. Petitions, reports and other papers, presented after that hour on such day, will not be considered until the next meeting.



# RULES AND ORDERS OF THE COMMON COUNCIL

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1. Upon the arrival of the hour fixed upon for the meeting, the President shall call for order, and within ten minutes (or sooner, if a quorum be present,) cause the clerk to call the roll and report to him the number present, and the number absent, which information he shall, in turn, announce to the body. In the absence of the President, the eldest senior member shall call to order and preside until a President pro tempore be chosen.

2. The President shall preserve order and decorum. He may speak to points of order in preference to other members, rising for that purpose. He shall decide questions of order, subject to appeal, but shall entertain no discussion on the merits of his ruling.

3. While addressing the body the President shall stand, but he may read or put questions while sitting.

4. The President shall declare all votes, and, if a vote be doubted, he shall, without permitting further debate, require the members voting in the affirmative to rise and remain standing until they are counted by the clerk; then he shall require the

members voting in the negative to rise and remain standing until they are counted by the clerk, and he shall thereupon, on information from said clerk, declare the result.

5. The President may call any member to the chair, but such substitution shall not extend beyond an adjournment, and when out of the chair he may express his opinion on any subject under debate, but he must not resume the chair while the same question is pending.

6. All questions shall be propounded by the President in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the body, unless the mover (no objection being offered) withdraw it before a decision or amendment.

8. A motion to adjourn shall always be in order, unless the body is engaged in voting.

9. The previous question shall be in this form: "Shall the main question be now put?" It shall only be admitted when demanded by a majority of members present, and until it is decided, shall preclude all amendment and debate of the main question.

10. The yeas and nays shall be taken on any question upon demand of one-third of the members present.

11. When two or more members rise at the same time, the President shall name the member who shall speak first.

12. Every motion shall be reduced to writing, if the President or any member requires it.

13. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition, nor shall a vote on any subsidiary or incidental motion be reconsidered, except a motion to that effect be made and be acted upon at the same meeting at which the vote was decided.

14. When any member is about to speak in debate, or deliver any matter to the body, he shall rise and respectfully address the presiding officer, confine himself to the question, and avoid personality.

15. During debate no member shall be mentioned by name, but he may be described by such other designation as may be intelligible and respectful.

16. No member, while speaking, shall be interrupted by another, but by a call to order or to correct a mistake. If any member, in speaking or otherwise, transgresses the rules of the body, the President shall, or any member may, call him to order; in which case the member so called to order shall immediately be seated until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed; if otherwise, he shall not proceed without the leave of the body.

17. No member shall speak more than twice to the same question without obtaining leave of the body.

18. Whilst the President is speaking, no member shall pass between him and the body, and while a member is speaking no person shall pass between him and the President; nor shall any person rise in front of a speaking member except to raise a point of order.

19. When a question has been decided, any member voting with the majority may move a reconsideration, to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration, to be acted upon at the next meeting; which latter motion shall have priority, if made before the motion first mentioned shall have been decided. No vote or question shall be twice reconsidered.

20. Every member present when a question is put shall, unless, for special reasons, excused by a majority of the members, give his vote. But in the election of any city officer, he may decline to vote, as provided in Section 1, Chapter 170 of the Acts of 1899. And no member shall leave without permission, if his presence is necessary to make a quorum.

21. No motion or proposition, on a subject different from that under consideration, shall be admitted under color of an amendment.

22. All reports may be committed or recommitted at the pleasure of the body.

23. The division of a question may be called for when the sense will admit of it.

24. A majority vote shall be necessary to sustain objection to the reading of a paper.

25. No standing order shall be suspended, except by a two-thirds vote of the members present; nor shall any rule or order governing the body be repealed or amended without one day's notice, nor unless fourteen members concur therein.

26. The order of business shall be as follows:

1—Roll call.

2—Reading of records.

3—Papers from the Board of Aldermen.

4—Communications and reports from city officials.

5—Presentation of petitions, remonstrances and memorials.

6—Reports of committees.

7—Unfinished business of preceding meetings.

8—Motions, orders or resolutions.

The above order of business shall not be departed from, except by vote of a majority of the members present, but the body may appoint a committee of two to approve the records of the clerk during the year, and if such a committee is appointed, the reading of the records shall be omitted, unless called for by one-third of the members present.

27. The seats of the Common Council shall be numbered and determined by lot, and no member shall change his seat but by permission of the President.



28. All committees, except such as the body determines to select by ballot, or such as may be required by statute to be voted for, shall be appointed by the President, and the political minority shall be represented by at least one member.

29. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

30. All memorials and other papers addressed to the body shall be presented by the President, or by a member in his place, who shall explain the subject thereof; and they shall be taken up in the order in which they were presented, unless the body shall otherwise direct.

31. Standing committees shall be appointed on the following subjects:

On Second Reading of Bills and Ordinances.

On Enrollment.

On Elections and Returns.

32. No committee shall sit during a session of the body, without special leave, except the Committee on the Second Reading of Bills and Ordinances and the Committee on Enrollment.

33. These rules shall be observed in the Committee of the Whole, so far as they are applicable, except Rule 17.

34. When a committee is nominated by the chair, the person first named shall be chairman. In the election of committees, except on finance, when a chairman is not specially chosen, the person having the highest number of votes shall act as chair-

man; and in case of an equality in votes between two or more members of a committee, the members thereof shall choose a chairman.

35. All committees shall consist of three members, unless otherwise specially provided for; and no report shall be received from any committee unless agreed to in committee actually assembled; and reports shall be in writing, unless otherwise ordered.

36. It shall be the duty of every committee to whom any subject may be specially referred, to report thereon within five weeks, unless further time be previously asked for and granted.

37. Members of the body may attend any meetings of any of its committees, but shall not vote thereat.

38. All ordinances and resolutions shall have two several readings before they shall be finally passed. See Joint Rules 7 and 8.

39. All ordinances after being read a second time shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said committee, shall be again read, after which the question shall be on passing the same to be enrolled.

40. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

41. Any member offering a resolution or order shall write his name on the bottom of the back of such paper.

42. All city officers shall be voted for in accordance with Section 1, Chapter 170, Acts of 1899.

43. The clerk shall keep brief minutes of the votes and proceedings of the body, entering thereon all accepted resolutions; shall notice reports and memorials, and other papers submitted to the board, only by their titles or by a brief description of their purport.

44. The clerk shall keep the record of committees that may require that service; and on the appointment of every standing committee, a book for records shall be provided by its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept; and the records of the several committees shall be open to the inspection of members of the City Council.

45. With the exception of an order for a joint convention, any joint order or resolution originating in the Common Council shall be copied, and shall, previous to the hour for calling the meeting to order, be posted by the clerk, in some prominent place in the Common Council chamber or coat room, where it may be open to the inspection of members.

46. All orders, resolutions, reports, petitions or other papers (except communications) requiring concurrent action, or action by this body only, shall be filed by members in the office of the City Clerk at least twenty-four hours before the time set for the meeting of the body; also all reports or papers from committees.

47. No paper entered in violation of the preceding rule shall be considered except by unanimous consent.

48. The clerk shall, previous to each regular or special meeting, prepare, in the sequence of the order of business, a brief synopsis of all matters to be acted upon, and place, or cause to be placed, on the desk of each member, a copy of the same, prior to the hour designated for calling such meeting to order.

49. "Cushing's Manual" shall be authority on all questions of debate or parliamentary usage, when the same does not conflict with the rules and orders of this body.

50. A copy of "Cushing's Manual" shall, at all times, during the sessions of this body, be on the desk of the President.

#### SPECIAL RULE.

All joint orders requiring concurrent action, calling for the contraction of loans, except loans in anticipation of taxes, shall first be read for information and shall then lie upon the table until the next meeting, when action upon the passage of the same may be taken. This rule shall not be suspended or repealed unless by two-thirds vote of the members present.





# CITY COUNCIL AND COMMITTEES FOR 1901.

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## MAYOR.

CHARLES A. R. DIMON.....223 Parkview Avenue

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## ALDERMEN.

JAMES F. MISKELLA.....Chairman  
WILLIAM E. BADGER.....156 Methuen Street  
JAMES H. CARMICHAEL.....22 Rolfe Street  
PATRICK CONLON.....339 Concord Street  
PHILIP DESMARAIS.....44 Lamb Street  
RICHARD J. McCLUSKEY.....161 Lakeview Avenue  
JAMES F. MISKELLA.....35 Mead Street  
JOSEPH MULLIN.....232 Moore Street  
GARDNER W. PEARSON.....148 Myrtle Street  
JOHN J. SULLIVAN.....46 Marion Street  
GIRARD P. DADMAN.....Clerk

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## COMMON COUNCILMEN.

PIERRE A. BROUSSEAU.....President  
Resigned July 2, 1901.  
JAMES G. HILL.....President  
Elected July 2, 1901.

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## WARD ONE.

HERBERT R. BAKER.....24 West Third Street  
JAMES G. HILL.....263 Appleton Street  
MARK D. TAYLOR.....24 West Third Street

**WARD TWO.**

PETER DALEY.....11 Marion Street  
 PATRICK J. O'ROURKE.....2, rear 219 Adams Street  
 \*JOHN H. SPILLANE.....39 Marion Street  
 \*\*JOHN J. PINDER.....159 Broadway

**WARD THREE.**

OTTO JENSEN.....384 Walker Street  
 EPHRAIM D. LIVINGSTON.....287 Westford Street  
 GEORGE McELROY.....64 Grand Street

**WARD FOUR.**

JAMES B. CASEY.....87 Summer Street  
 TIMOTHY F. DONOHUE.....43 Whipple Street  
 MICHAEL J. MARKHAM.....834 Central Street

**WARD FIVE.**

T. FRANK CLARK.....33 Davidson Street  
 THOMAS J. McCAFFREY.....149 Concord Street  
 GEORGE B. ROCHE.....12 Cady Street

**WARD SIX.**

\*\*\*PIERRE A. BROUSSEAU.....162 Cumberland Road  
 JOHN A. HENDERSON.....119 Myrtle Street  
 HARRY SWANN.....94 Beech Street

**WARD SEVEN.**

LOUIS LEBRUN.....2 Knapp's Block, Moody Street  
 JOSEPH A. LEGARE.....15 Marsh Street  
 ALBERT S. PARK.....22 Wannalancit Street

**WARD EIGHT.**

JAMES P. DUGDALE.....48 Marlborough Street  
 ALBERT F. GRANT.....244 Gibson Street  
 CHARLES E. TILTON.....57 South Walker Street

**WARD NINE.**

CHARLES H. CLOUGH.....92 Fort Hill Avenue  
 GEORGE EMSLEY.....20 Weed Street  
 FRANK G. LUNDBERG.....44 Fay Street

FRANK M. DOWLING.....Clerk

\*Died April 16, 1901.

\*\*Elected June 4, 1901.

\*\*\*Resigned July 2, 1901.

**MEETINGS OF THE CITY COUNCIL.**

The regular meetings of both branches of the City Council are held at the City Hall as follows:—

**ALDERMEN.**

Second and fourth Tuesdays in each month except August.

January.....	8 and 22	July.....	9 and 23
February.....	12 and 26	September.....	10 and 24
March.....	12 and 26	October.....	8 and 22
April.....	9 and 23	November.....	12 and 26
May.....	14 and 28	December.....	10 and 24
June.....	11 and 25		

At 8 P. M.

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**COUNCILMEN.**

First and third Tuesdays in each month except August.

January .....	15	July.....	2 and 16
February.....	5 and 19	September.....	3 and 17
March.....	5 and 19	October.....	1 and 15
April.....	2 and 16	November.....	5 and 19
May.....	7 and 21	December.....	3 and 17
June.....	4 and 18		

At 8 P. M.

## Joint Standing Committees of the City Council.

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ACCOUNTS—Alderman Pearson; Councilmen Clark and Emsley.

APPROPRIATIONS—Aldermen Pearson, Miskella and Carmichael; Councilmen Henderson, Baker, Hill and Casey.

CLAIMS—Aldermen Badger and Desmarais; Councilmen Grant, Henderson and O'Rourke.

COMMONS—Aldermen Desmarais and McCluskey; Councilmen Legare, McCaffrey and Livingston.

EDUCATION—Aldermen Badger and Miskella; Councilmen Swann, Legare and Clark.

FINANCES—The Mayor and Alderman Sullivan; Councilmen Henderson, Markham and Tilton.

FIRE DEPARTMENT—Aldermen McCluskey and Mullin; Councilmen Swann, Pinder and Park.

INDUSTRIES—Aldermen Pearson and Badger; Councilmen Casey, Swann and Dugdale.

LANDS AND BUILDINGS—Aldermen Conlon and Desmarais; Councilmen Roche, Emsley and Lebrun.

MILITARY AFFAIRS—Aldermen Pearson and Sullivan; Councilmen Park, Tilton and Pinder.

ORDINANCES AND LEGISLATION—Aldermen Carmichael and Badger; Councilmen Emsley, O'Rourke and Park.

PRINTING—Aldermen Desmarais and McCluskey; Councilmen Livingston, McCaffrey and Tilton.

STREETS—Aldermen Carmichael and Mullin; Councilmen Lebrun, Dugdale, Taylor, Markham and McElroy.

## Joint Special Committees.

CELEBRATION, JULY 4TH, 1901—The Mayor and President of the Common Council; Councilmen Livingston, Tilton and Donohoe; Aldermen Badger and Mullin.

ESTABLISHMENT OF ELECTRIC LIGHTING PLANT—Aldermen Pearson and Miskella; Councilmen Jensen, Swann and Daley.

GARBAGE—Councilmen Jensen, Clark and Legare; Aldermen Miskella and Mullin, and the Board of Health.

LABOR DAY—The Mayor; Councilmen Casey, Legare and Clough; Aldermen Mullin and Miskella.

PUBLIC BATHS—Councilmen Markham, Baker and McCaffrey; Aldermen Desmarais and Sullivan.

REVISION OF CITY CHARTER—The Mayor and Aldermen Pearson and Miskella; Councilmen Henderson, Lundberg and Emsley; City Solicitor; Citizens Edward W. Thomas, Nathan D. Pratt, Hon. Charles D. Palmer.

SEVENTY-FIFTH ANNIVERSARY—Councilmen Casey, Lebrun, Grant, Brousseau, Spillane and Emsley; The Mayor and Aldermen McCluskey, Mullin, Miskella and Badger.

VOTING MACHINES—Aldermen Sullivan and Conlon; Councilmen Taylor, Grant and Casey.

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## Standing Committees of the Board of Aldermen.

BILLS IN SECOND READING—Aldermen Miskella and Pearson.

ELECTRIC WIRES—Aldermen Badger, Mullin and Miskella.

ENROLLMENT—Aldermen Pearson and Carmichael.

LICENSES—Aldermen McCluskey, Desmarais and Conlon.

LIGHTING STREETS—Aldermen Miskella and Pearson.

SEWERS—Aldermen Sullivan, Badger and Conlon.

STATE AID—Aldermen Pearson and Sullivan.

WEIGHTS AND MEASURES—Aldermen Mullin and Badger.



## **Special Committee of the Board of Aldermen.**

CLERK'S RECORD—Aldermen Carmichael and Badger.

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## **Standing Committees of the Common Council.**

BILLS IN SECOND READING—Councilmen Hill, Markham and McElroy.

ELECTIONS AND RETURNS—Councilmen Lundberg, Roche and Tilton.

ENROLLMENT—Councilmen Dugdale, Livingston and Clark.

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## **Special Committees of the Common Council.**

CLERK'S RECORD—Councilmen Hendersen and Grant.

RULES—Councilmen Grant, Tilton and Roche.

# CITY OFFICERS FOR 1901.

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## CITY CLERK.

Telephone, 430.

GIRARD P. DADMAN.....Office, City Hall

Chosen by the City Council in convention in January. Term expires first Monday in January, or when successor is chosen. City Charter, Sect. 17. Ord., Chap. 8.

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## ASSISTANT CITY CLERK.

WILLIAM P. McCARTHY.....Office, City Hall

Appointed by the City Clerk, subject to approval of the Board of Aldermen.

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## CLERK OF COMMITTEES.

Telephone, 130.

FRANK M. DOWLING, Term Expires 1904.....Office, City Hall

Chosen by concurrent vote in January for the term of three years.

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## CITY TREASURER AND COLLECTOR OF TAXES.

Telephone, 577.

ANDREW G. STILES.....Office, City Hall

Chosen by the City Council in convention in January for one year from first day of April, or until successor is chosen. City Charter, Sect. 17. Ord., Chap. 9.

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## AUDITOR OF ACCOUNTS.

Telephone, 74.

DAVID CHASE.....Office, City Hall

Chosen by concurrent vote in January or February for one year from first day of April, or until successor is chosen. Ord., Chap. 2, Sect. 1.

**SUPERINTENDENT OF STREETS.**

Telephone, 572-3.

PATRICK F. BRADY.....Office, City Hall  
 Chosen by concurrent vote in January or February. Term expires first  
 Monday in January, or when successor is chosen. Ord., Chap. 39, Sect. 1.

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**CHIEF OF THE DEPARTMENT OF SUPPLIES.**

Telephone, 230.

FRED H. ROURKE.....Office, City Hall  
 Chosen at annual city election. Sect. 3, Chap. 415, Acts of 1896.

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**CIVIL ENGINEER FOR THE CITY.**

GEORGE BOWERS.....Office, City Hall  
 Chosen by concurrent vote in January or February for one year from  
 first day of April, or until successor is chosen. Ord., Chap. 13, Sect. 1.

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**SUPERINTENDENT OF COMMONS.**

AVERY MARSHALL.....Office, City Hall  
 Chosen by concurrent vote in January for one year, or until successor  
 is chosen. Ordinance approved June 18, 1897.

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**CITY SOLICITOR.**

Telephone, 136-2.

FRANCIS W. QUA.....Office, City Hall  
 Chosen by concurrent vote in January or February for one year from  
 first day of March, or until successor is chosen. Ord., Chap. 11, Sect. 1.

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**CITY MESSENGER.**

Telephone, 130.

JOSEPH E. PATTEE.....Office, City Hall  
 Chosen by concurrent vote in January for one year from first Monday in  
 February, or until successor is chosen. Ord., Chap. 10, Sect. 1.

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**LIBRARIAN OF CITY LIBRARY.**

Telephone, 506-3.

FREDERICK A. CHASE.....Office at City Library  
 Chosen by the Board of Trustees of the City Library. Chap. 231, Sect. 5,  
 Acts 1888.

**TRUSTEES OF CITY LIBRARY.**

CHARLES A. R. DIMON, Chairman, Ex-Officio.....	Mayor
MRS. ROWENA PALMER.....	Term Expires 1902
FRANK P. PUTNAM.....	Term Expires 1903
GEORGE F. RICHARDSON, Vice-Chairman.....	Term Expires 1904
THOMAS WALSH.....	Term Expires 1905
DENNIS A. SULLIVAN.....	Term Expires 1906
FREDERICK A. CHASE.....	Clerk

One appointed by the Mayor in December for term of five years commencing the second Monday in January, or until successor is appointed.

Regular meeting last Tuesday in each month.

**SUPERINTENDENT OF PUBLIC BUILDINGS.**

Telephone, 129-4.

JOSEPH S. GILLOW.....	Office, City Hall
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Chosen by concurrent vote in January or February. Term expires first Monday in January, or when successor is chosen. Ord., Chap. 5, Sect. 1.

**CITY PHYSICIAN.**

Telephone, 551-4.

WILLIAM M. JONES.....	Office, City Hall
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Chosen by concurrent vote in March or April. Term expires April 30, or when successor is chosen. Ord., approved June 27, 1900.

**TRUSTEES OF PUBLIC BURIAL GROUNDS.**

Telephone, 130.

CHARLES A. R. DIMON, Chairman, Ex-Officio.....	Mayor
FRED WOODIES.....	
JOHN L. STEVENS.....	
FRED WOODIES.....	Secretary

One appointed by Mayor and Aldermen annually in December, for two years from first day of January next ensuing, or until successor is appointed. Acts 1891, Chap. 337.

**ASSESSORS OF TAXES.**

Telephone, 136-3.

JOHN P. MAHONEY.....	Term Expires 1901
ABEL WHEELER.....	Term Expires 1902
C. ARTHUR ABBOTT.....	Term Expires 1903
ABEL WHEELER.....	Chairman
JOHN P. MAHONEY.....	Secretary
STEPHEN J. KIRBY.....	Clerk

**ASSISTANT ASSESSORS OF TAXES.**

RICHARD CHARLTON,	CHARLES RILEY,
ROBERT L. READ,	PAUL T. CONNELL,
THOMAS F. GARVEY,	DR. GEORGE A. CAISSE.

ASSESSORS.—One chosen by concurrent vote annually in January or February, for the term of three years from the first Monday in January, or until successor is chosen. Ord., Chap. 3, Sect. 1.

ASSISTANT ASSESSORS.—Appointed by the Mayor in March or April, for May and June, subject to confirmation by the City Council. Ord., app. February 28, 1899.

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**INSPECTOR OF WIRES.**

JAMES F. McELHOLM.  
Term Expires February 1, 1904.  
Appointed by Mayor and Aldermen. Ord., app. July 15, 1898.

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**OVERSEERS OF THE POOR.**

Telephone, 566-3.  
Chosen at the City Election for two years.

FRANK McMAHON.....Chairman

**WARD**

- 1—SAMUEL HOLGATE, 43 Hamilton Corporation.....Term Expires 1901
- 2—FRANK McMAHON, 85 Adams Street.....Term Expires 1901
- 3—GEORGE F. THOMAS, 304 Westford Street.....Term Expires 1901
- 4—JOHN J. GILBRIDE, 9 Prospect Street.....Term Expires 1901
- 5—MARTIN F. CONLEY, 7 Richmond Street.....Term Expires 1902
- 6—EVARISTE BERTRAND, 115 West Street.....Term Expires 1902
- 7—CLARENCE G. COBURN, 215 Mammoth Road.....Term Expires 1901
- 8—HENRY J. WILLIAMS, 354 Pine Street.....Term Expires 1902
- 9—HUGH C. McOSKER, 209 Stackpole Street.....Term Expires 1902

Regular meetings last Thursday of the month at the City Farm.

**Secretary and Superintendent of Out-Door Poor.**

MARTIN J. COURTNEY, 26 Ames Street.....Office, City Hall  
HOURS: 9 A. M. to 4 P. M.



**Superintendent of In-Door Poor.**

ROBERT V. SAUNDERS.....Office and Residence, City Farm

**List of Committees.**

ACCOUNTS—Messrs. Conley, Bertrand and Holgate.

AGRICULTURE, CATTLE AND SWINE—Messrs. McMahon, McOsker and Williams.

CARE AND REPAIR OF BUILDINGS—Messrs. McOsker, Conley and Coburn.

CLOTHING, FURNITURE AND BEDDING—Messrs. Bertrand, McMahon and Holgate.

DISPENSARY—Messrs. McMahon, Gilbride and Thomas.

PRINTING—Messrs. Gilbride, Bertrand and Coburn.

OUT-DOOR RELIEF—Messrs. Conley, McOsker and Holgate.

PROVISIONS AND SUPPLIES—Messrs. Gilbride, McMahon and Williams.

WOOD YARD—Messrs. Bertrand, Conley and Thomas.

INSURANCE—Messrs. McOsker, Gilbride and Coburn.

**District and Dispensary Physicians.**

DISTRICT 1—TIMOTHY J. HALLORAN.....8 Runels Building

DISTRICT 2—ANDREW J. HALPIN.....26 Central Street

DISTRICT 3—CHARLES M. FRYE.....408 Middlesex Street

DISTRICT 4—OMER P. PORTER.....253 Central Street

DISTRICT 5—WILLIAM A. JOHNSON.....160 Merrimack Street

DISTRICT 6—PIERRE BRUNELLE, JR.....33 East Merrimack Street

**City Dispensary.**

OFFICE, CITY HALL.

EDWIN F. MASON, Clerk.

Open week days—9 A. M. to 1 P. M.; 2.30 P. M. to 5 P. M.

# **MEMBERS OF THE LOWELL WATER BOARD.**

OFFICE, CITY HALL.

Telephone, 271-2.

FRANK L. WEAVER.....	President
AUGUST FELS.....	Term Expires 1902
HERBERT C. TAFT.....	Term Expires 1903
FRANK L. WEAVER.....	Term Expires 1904
MICHAEL J. DOWD.....	Term Expires 1905

JOHN W. CRAWFORD, Clerk.

ROBERT J. THOMAS, Superintendent.

The members of the Lowell Water Board are chosen by concurrent vote in January or February for a term of four years from the first Monday of March following their election, one member retiring annually.

The Superintendent is chosen in March by the Board.

The Clerk is chosen by the Board in June. Ord., Chap. 45.

HOURS: 9 A. M. to 5 P. M.

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## **COMMISSIONERS OF SINKING FUNDS.**

AUSTIN K. CHADWICK.....	Term Expires 1902
FRED A. BUTTRICK.....	Term Expires 1903
CHARLES L. KNAPP.....	Term Expires 1904

ANDREW G. STILES, Secretary and Treasurer.

One member elected annually by the City Council in December for three years, commencing January first. Public Statutes, Chap. 29, Sect. 10.

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## **BOARD OF CIVIL SERVICE EXAMINERS.**

JOSEPH SMITH..... Chairman

JOHN J. COLTON, M. D., CHARLES H. CONANT, JOSEPH SMITH.

CHARLES H. CONANT, Secretary.

Appointed by the State Civil Service Commissioners.

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## **SUPERINTENDENT OF STATE AID AND AGENT FOR THE BURIAL OF INDIGENT SOLDIERS AND SAILORS, ETC.**

Telephone, 136-4.

HUBERT M. POTTER.

MARY C. BRENNAN, Asst. Supt.

Appointed by Mayor and Aldermen. Ord., approved Sept. 27, 1898.

**FIRE DEPARTMENT.**

The Chief Engineer is elected by concurrent vote in the month of March or April, for the term of three years. Sect. 2, Chap. 95, Acts of 1897.

Assistant Engineers appointed by the Mayor and Aldermen in March or April, the First Assistant for three years, the others for one year, commencing the first day of May. Ord. approved Nov. 27, 1896.

**Chief Engineer.**

Telephone, 201-12.

EDWARD S. HOSMER, 202 Westford Street.....Term Expires 1903  
Office, Engine House, Middle Street.

**Assistant Engineers.**

JAMES F. NORTON, First Assistant, 22 Ames Street..Term Expires 1904  
GEORGE F. SALMON, 91 Mt. Washington Street.....Term Expires 1902  
EDWARD MELOY, 30 Fort Hill Avenue.....Term Expires 1902  
HENRY W. BURTON, 15 Kimball Avenue.....Term Expires 1902

JAMES F. NORTON, Clerk of the Board.

The Clerk is chosen by the Engineers.

**Operator of the Fire Alarm Telegraph.**

HENRY C. FERNALD.....Central Station

**Committee on Fire Department.**

Aldermen MCCLUSKEY and MULLIN; Councilmen SWANN, PINDER and PARK.

**THE BOARD OF POLICE OF THE CITY OF LOWELL.**

Office, Police Station.

FRANK B. DOW, Chairman.

PETER J. BRADY.....Term Expires 1902  
HARRY R. RICE.....Term Expires 1904  
FRANK B. DOW.....Term Expires 1906

Appointed by the Mayor under the provisions of Chap. 428 of the Acts of 1894 and Chap. 187 of the Acts of 1895.

JOSEPH SMITH, Clerk.

Regular meetings at the Police Station every Tuesday evening at 8 o'clock.

EMMA B. VINING, Stenographer.

Telephone, 101.

**Police Roll, 1901.**

WILLIAM B. MOFFATT, Superintendent of Police.  
REDMOND WELCH, Deputy Superintendent.  
WILLIAM R. KEW, Captain.  
JAMES BROSNAN, Lieutenant.  
HUGH DOWNEY, Lieutenant.  
JAMES E. WEBSTER, Lieutenant.  
THOMAS E. ALLEN, Inspector, Criminal.  
CHARLES LAFLAMME, Inspector, Criminal.  
DAVID J. DONALDSON, Inspector, Criminal.  
FRANK GOODWIN, Inspector, Minor Licenses.  
MICHAEL E. McDONALD, Inspector of Claims.  
MARTIN CONNERS, Sergeant.  
JOHN B. CROWLEY, Sergeant.  
WILLIAM G. BUMPS, Court Officer.  
CHARLES GREGG, Court Officer.  
ALFRED M. HOLMAN, Keeper.  
JAMES A. McQUADE, Keeper.  
MICHAEL J. BURNS, Electrician.  
JAMES H. HOWARD, Operator.  
CHESTER E. RYDER, Patrol Guard.  
JOHN HICKSON, Patrol Guard.  
JOHN E. MAGUIRE, Information Clerk.  
FREDERICK L. DAVIS, Driver of Patrol.  
JAMES W. KILBURN, Driver of Patrol.  
ALBERT CROWELL, Stable.  
EDWARD GANNON, Stable.  
MARGARET WALLACE, Matron.  
GEORGE W. LEWIS, Janitor.

**Patrolmen.**

ABBOTT, GEORGE S.	CASTLES, STEPHEN J.
ATKINSON, THOMAS R.	CAWLEY, PETER
BLOOD, JOSIAH S.	CHARRON, GEORGE A.
BOYLE, JAMES	CLANCY, MICHAEL J.
BREAULT, ELOI N.	CLEMENT, HORACE W.
BROWN, GEORGE H.	COGGER, DANIEL W.
BUCHANAN, JOHN	COLEMAN, THOMAS F.
BURNETT, WILLIAM C.	CONWAY, JOHN E.

CORCORAN, PETER T.	HILL, CHARLES S.
CREAHIN, JOHN	HILL, EDWARD E.
CREAMER, AMBROSE M.	HOGAN, DAVID H.
CROWLEY, JOHN J.	HOLLAND, JAMES E.
CURRAN, PETER	HOWARD, CORNELIUS
DEERING, HENRY E.	HURLEY, JAMES F.
DENNETT, JOHN S.	INGALLS, LINDSEY E.
DONOVAN, JOHN J.	JONES, WILLIAM B.
DOOLEY, JEREMIAH J.	KANE, BARTHOLOMEW
DOW, JAMES E.	KENNEDY, JAMES J.
DUNCAN, ALEXANDER	KIERNAN, MICHAEL
DWYER, JAMES J.	KILLOY, WILLIAM H.
DWYER, PHILIP	LAMOUREUX, JOSEPH L.
DWYER, TIMOTHY J.	LANE, DANIEL W.
EALY, FRANK B.	LEIGHTON, JOHN L.
FARLEY, JOSEPH	LENNON, MICHAEL J.
FARRIS, HENRY C.	LIBBY, ALBERT E.
FITZGERALD, THOMAS H.	LYNCH, JEREMIAH
FLANAGAN, EDWARD F.	MACKENZIE, JOHN R.
FOX, EDWARD	MAGUIRE, HUGH
FOX, FRANK	MAHER, MARTIN A.
FOX, JOHN W.	MARKHAM, JAMES
FRAWLEY, PATRICK J.	MARSHALL, FRANK K.
FREEMAN, JOHN	MARSHALL, GEORGE W.
GANLEY, JOHN J.	McCANN, MATTHEW J.
GIROUX, WILLIAM	McCLOUGHRY, THOMAS
GRADY, WILLIAM H.	McCLOUGHRY, WILLIAM
GRINNELL, ENOCH N.	McINTEE, CORMACK
HAMILTON, CHARLES A.	McKAY, JOHN H.
HEALEY, JOHN F.	McNABB, JAMES
HERSEY, CHARLES H.	MOLONEY, THOMAS A.
HESSIAN, THOMAS H.	MOORE, FRANCIS E.



MULRY, JOHN J.	ROBINSON, GEORGE W.
MURPHY, ANTHONY	RYAN, BARTHOLOMEW
MURPHY, PHILIP D.	SANBORN, THOMAS J.
NEELY, D. WESLEY	SOMERS, HENRY E.
NICHOLS, EZRA A.	SPARKS, JOHN F.
NOYE, JOSE V. M.	SULLIVAN, JOHN J.
O'BRIEN, WILLIAM H.	SWAN, EDWARD T.
O'CONNELL, JOHN	TANSEY, OWEN J.
O'CONNELL, MICHAEL	TILTON, HERMAN N.
O'KEEFE, CORNELIUS T.	TILTON, JOHN W.
PAGE, ALONZO J.	WALSH, JOHN A.
PALMER, GEORGE B.	WELCH, JOHN N.
PERKINS, EVERETT E.	WHELAN, JOHN T.
PROVENCHER, NAPOLEON	WHITNEY, FRANK H.
QUINN, HENRY F.	WHITTAKER, JOHN T.
RILEY, JAMES	WHITWORTH, JAMES H.
RILEY, THOMAS B.	WILSON, WILLIAM H.

#### Keeper of Lock-up.

WILLIAM B. MOFFATT.

#### Constables.

ADAMS, THOMAS E.	LAPIERRE, JOSEPH S.
BALLOU, GEORGE W.	MAGUIRE, JOHN E.
BARIL, OVIDE E.	MANSUR, EZRA E.
BATES, FREDERICK A.	MERCIER, HENRY.
BRADLEY, CHARLES F.	McMANUS, JOHN
FLYNN, RICHARD J.	MOORE, ALLISON
GATELY, BERNARD F.	NICHOLS, EZRA A.
GERRISH, ENOCH	O'BOYLE, MICHAEL J.
HOUDE, HECTOR H.	SEARLE, JOHN P.
HYNES, RICHARD H.	SLATTERY, EDWARD F.

WORCESTER, CHARLES H.

**POLICE COURT.**

Telephone, 575.

SAMUEL P. HADLEY.....	Standing Justice
JOHN J. PICKMAN.....	Special Justice
FREDERICK A. FISHER.....	Special Justice
JAMES F. SAVAGE.....	Clerk
EDWARD W. TRULL.....	Assistant Clerk

**HEALTH COMMISSIONER.**

Telephone, 101.

WILLIAM B. MOFFATT.....Office, Police Station

Chosen by concurrent vote by nomination commencing in the Board of Aldermen,  
in January or February. Ord., Chap. 41, Sect. 1.

**BOARD OF HEALTH.**

Telephone, 549-4.

GUY HOLBROOK, M. D., Chairman.....	First Monday February, 1904
GEORGE W. FIFIELD.....	First Monday February, 1902
JOHN H. MCGINNIS.....	First Monday February, 1903

One member appointed annually by the Mayor and Board of Aldermen in  
January for term of three years from first Monday in February. Chap. 332,  
Sect. 1, Acts of 1895.

**BOARD OF REGISTRARS OF VOTERS.**

ALBERT J. BLAZON.....	Term Expires May 1, 1902
JOHN P. FARLEY.....	Term Expires May 1, 1903
JAMES F. OWENS.....	Term Expires May 1, 1904

GIRARD P. DADMAN, City Clerk, Ex-Officio.

Chapter 417, Acts of 1893, Sect. 16.

One member appointed annually in March or April for three years from the  
first day of May next ensuing and until his successor is appointed and qualified.

**FENCE VIEWER.**

MARTIN HYDE.

Chosen by concurrent vote by nomination commencing in the Board of  
Aldermen in January or February. Ord., Chap. 41, Sect. 1.

**FIELD DRIVERS.**

FRANK FOX.

WILLIAM G. BUMPS.

JAMES E. WEBSTER.

JAMES BROSNAN.

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

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**POUND KEEPER.**

LAWRENCE J. THYNE.

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

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**SEALER OF WEIGHTS AND MEASURES.**

JAMES R. FULTON.

Appointed by the Board of Aldermen by nomination in March or April. Pub. Stat., Chap. 65, Sect. 8. Acts of 1882, Chap. 42. Ord., Chap. 41, Sect. 2.

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**INSPECTOR OF MILK, VINEGAR AND OLEOMARGARINE.**

THOMAS O. ALLEN.....Office, City Hall

Appointed by the Board of Aldermen by nomination in January or February. Ord., Chap. 41, Sect. 2.

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**INSPECTOR OF ANIMALS.**

WALTER A. SHERMAN.....Office, 340 Central Street

Appointed by the Mayor and Aldermen annually in March, subject to approval of Board of Cattle Commissioners.

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**INSPECTORS OF PROVISIONS.**

FREDERICK A. BATES.

DANIEL W. LANE.

Appointed by the Mayor and Aldermen.

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**INSPECTORS OF PETROLEUM OIL.**

THOMAS O. ALLEN.

EDWARD S. HOSMER.

Appointed by the Mayor and Aldermen. Pub. Stat., Chap. 59, Sect. 6.

**INSPECTORS OF BOILERS.**

CLARENDON GOODWIN

BARTHOLOMEW SCANNELL.

Pub. Stat., Chap. 102, Sect. 49.

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**FISH WARDEN.**

CHARLES W. SWAN.

Appointed by the Mayor and Board of Aldermen. Pub. Stat., Chap. 91.  
Sect. 42.

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**SUPERINTENDENT OF CITY SCALES—MEASURER OF  
WOOD AND BARK—INSPECTOR OF BALED OR  
BUNDLED HAY—AT CITY SCALES.**

GEORGE F. NOONAN.

Office at City Scales, rear of Market House Building.

Appointed by the Board of Aldermen in January or February. Ord., Chap.  
46, Sect. 1; Chap. 21, Sect. 1.

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**MEASURERS OF WOOD AND BARK BROUGHT BY WATER  
OR RAILROAD CARS INTO THE CITY.**

BATEMAN, JOHN F.

MILLS, LEWIS E.

CHOATE, JAMES F.

PARKER, HARRY J.

JOHNSON, COOLIDGE R.

SNELL, ORA M.

Appointed by the Board of Aldermen in January or February. Ord., Chap.  
46, Sect. 1.

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**MEASURERS OF WOOD AND BARK.**

CHOATE, JAMES F.

JOHNSON, COOLIDGE R.

COBURN, CLARENCE G.

McPHETRES, SAMUEL A.

DODGE, ALLEN

MILLS, LEWIS E.

FENTON, ABRAM

PARKER, HARRY J.

GILMORE, ROBERT J.

ROURKE, FRED H.

HALEY, GEO. P.

WILLIAMS, HENRY J.

Appointed by the Board of Aldermen in January or February. Ord., Chap.  
46, Sect. 1.

**MEASURERS OF GRAIN.**

BUCHANAN, EDITH E.  
CHOATE, JAMES F.  
FENTON, ABRAM  
McPHETRES, SAMUEL A.  
MILLS, LEWIS E.

PARKER, HARRY J.  
PARKER, EUDORA P.  
PARKER, FRANK H.  
ROURKE, FRED H.  
WILLIAMS, HENRY J.

Fees.—2 1-2 mills a bushel for measuring. Appointed by the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 2.

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**SURVEYORS OF LUMBER.**

BATEMAN, JOHN F.  
CHENEY, FRANK P.  
CHOATE, JAMES F.  
CLARK, C. M.  
DODGE, ALLEN  
FENTON, ABRAM  
GAFFNEY, PATRICK J.  
GILMAN, ALBERT I.  
HOWE, CHARLES E.  
HUNTER, WILLIAM  
JOHNSON, COOLIDGE R.  
LEAVITT, GEORGE E.  
MANAHAN, JOSEPH F.  
MARTIN, GEORGE  
MAYBERRY, OLIVER W.  
McDONALD, MURDOCK B.  
McENANEY, WALTER J.  
McLEAN, JOHN R.

McLEOD, MURDOCK K.  
McPHEE, HARRY  
McPHETRES, SAMUEL A.  
MILLS, LEWIS E.  
MOULTON, IVORY F.  
MULCAHY, JAMES  
NEALE, AUSTIN J.  
NICHOLS, PAUL W.  
NOYCE, CHARLES H.  
PARKER, HARRY J.  
PIKE, D. C.  
PRATT, MURRAY H.  
ROBINSON, JOHN W.  
ROURKE, FRED H.  
SHEA, THOMAS H.  
SNELL, ORA M.  
STOCKMAN, EDWARD  
WIGGIN, BURTON H.

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

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**SURVEYORS OF PLASTERING, BRICK OR STONE WORK  
AND PAINTING.**

BATEMAN, JOHN F.  
BROOKS, HENRY O.  
FAVOR, WILLIAM A.

LYFORD, ALFRED E.  
SMITH, MELVIN B.  
SNELL, ORA M.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 2.



**WEIGHERS OF HAY AND OTHER ARTICLES.**

BOARDMAN, THOMAS P.  
 BROWN, F. L.  
 BUCHANAN, EDITH E.  
 CHOATE, JAMES F.  
 COBURN, CLARENCE G.  
 COBURN, WALTER S.  
 DODGE, ALLEN  
 DONOHUE, THOMAS P.  
 FENTON, ABRAM  
 GORDON, JOHN G.  
 KELLEY, A. B.

McPHETRES, SAMUEL A.  
 MILLS, LEWIS E.  
 MOORE, BENJAMIN M.  
 MURPHY, THOMAS J.  
 PARKER, EUDORA P.  
 PARKER, HARRY J.  
 PARKER, FRANK H.  
 ROURKE, FRED H.  
 SMITH, LORENZO E.  
 STETSON, WILLIAM E.  
 SULLIVAN, DANIEL T.

WILSON, FRANKLIN T.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 21, Sect. 1.

**WEIGHERS OF COAL.**

ABBOTT, A. H.  
 BEALS, LAFOREST  
 BOARDMAN, THOMAS P.  
 BUCHANAN, EDITH E.  
 CHOATE, JAMES F.  
 DODGE, ALLEN  
 DONOHUE, THOMAS P.  
 DREWETT, EDWARD  
 FARNHAM, GEORGE W.  
 FENTON, ABRAM  
 GORDON, JOHN G.  
 HALEY, GEORGE P.  
 HARMON, L. E.  
 HINTZE, THOMAS H.  
 KELLEY, A. B.  
 KITCHEN, C. B.  
 LIVINGSTON, WM.

McPHETRES, SAMUEL A.  
 MILLS, LEWIS E.  
 MOORE, BENJAMIN M.  
 MURPHY, THOMAS J.  
 PARKER, EUDORA P.  
 PARKER, HARRY J.  
 PARKER, FRANK H.  
 PETERS, ALEXANDER B.  
 QUINN, JOHN P.  
 ROURKE, FRED H.  
 RUSHWORTH, CHAS. B.  
 SMITH, JESSE J.  
 SMITH, LORENZO E.  
 STETSON, WILLIAM E.  
 SULLIVAN, DANIEL T.  
 WHITE, HERBERT R.  
 WILSON, FRANKLIN T.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 2.

## SCHOOL COMMITTEE FOR 1901.

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WILLARD EVERETT..... President  
ARTHUR K. WHITCOMB.....Secretary

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### MEMBERS.

Ward 1—WILLIAM J. JOHNSON.....Term Expires 1901  
326 Merrimack Street.

Ward 2—CORNELIUS A. DALY.....Term Expires 1901  
318 Suffolk Street.

Ward 3—CHAS. L. SWEETSIR, M. D.....Term Expires 1902  
Tel. 682-5. 276 Westford Street.

Ward 4—JAMES E. DONNELLY.....Term Expires 1901  
Tel. 814-2. 36 Floyd Street.

Ward 5—DENNIS J. MURPHY.....Term Expires 1902  
Tel. 934-2. 55 Central Street.

Ward 6—JOSEPH N. MARSTON, M. D.....Term Expires 1902  
Tel. 872-3. 159 Middlesex Street.

Ward 7—ANDREW G. SWAPP.....Term Expires 1901  
Tel. 330. 307 Pawtucket Street.

Ward 8—WILLARD EVERETT.....Term Expires 1902  
12 Belmont Street.

Ward 9—ALBERT G. THOMPSON.....Term Expires 1901  
Tel. 434. Lowell Post Office.

**STANDING COMMITTEES.**

1. ON TEACHERS AND SALARIES—Messrs. Swapp, Everett, Donnelly.
  2. ON BOOKS AND SUPPLIES—Messrs. Sweetsir, Thompson, Marston, Murphy, Johnson.
  3. ON EVENING SCHOOLS—Messrs. Everett, Swapp, Marston, Thompson, Daly.
  4. ON HIGH SCHOOL—Messrs. Swapp, Everett, Sweetsir, Donnelly, Murphy.
  5. ON PENMANSHIP AND DRAWING—Messrs. Sweetsir, Marston, Johnson.
  6. ON MUSIC—Messrs. Marston, Thompson, Donnelly.
  7. ON REPORTS AND PRINTING—Messrs. Murphy, Sweetsir, Johnson.
  8. ON ACCOUNTS—Messrs. Donnelly, Everett, Daly.
  9. ON SCHOOLHOUSES AND HYGIENE—Messrs. Daly, Murphy, Thompson.
  10. ON RULES—Messrs. Johnson, Daly, Swapp.
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**ASSIGNMENT OF SCHOOLS.**

- MR. JOHNSON, Ward 1—Edson, Eliot, Kirk Street, Cottage Street.
- MR. DALY, Ward 2—Green, Worthen Street, Cheever Street, Morrill, Worthen Street Kindergarten.
- MR. SWEETSIR, M. D., Ward 3—High, Lincoln, Howard Street, Grand Street, Plain Street, Lincoln Kindergarten.
- MR. DONNELLY, Ward 4—High, Butler, London Street, Weed Street, Agawam Street, Carter Street, Lyon Street, Agawam Street and Chapel Street Kindergartens.
- MR. MURPHY, Ward 5—High, Charles Street, Central Street, Ames Street, Fayette Street.
- MR. MARSTON, M. D., Ward 6—Varnum, West Sixth Street, Tenth Street, Lakeview Avenue, Billings Street, Varnum Kindergarten.
- MR. SWAPP, Ward 7—High, Bartlett, Pawtucket, Training, Cross Street, Cabot Street, New Moody Street, Lexington Avenue, Pawtucketville, Training and Bartlett Kindergartens.
- MR. EVERETT, Ward 8—High, Highland, Franklin, Dover Street, Powell Street, Pine Street, Middlesex Village, Franklin, Dover and Pine Street Kindergartens.
- MR. THOMPSON, Ward 9—Moody, Pond Street, High Street, Sycamore Street, Moody Kindergarten.

## ASSIGNMENT OF EVENING SCHOOLS.

MR. EVERETT—High, Mann and Railroad Street.

MR. SWAPP—Bartlett, Green and Pawtucket.

MR. MARSTON—Varnum and Aiken Avenue.

MR. THOMPSON—Edson, Colburn and Manual Training.

MR. DALY—Butler and Franklin.

SUPERINTENDENT OF PUBLIC SCHOOLS.

Telephone, 566-4.

ARTHUR K. WHITCOMB.....Office in City Hall

Office Hours—One hour after the forenoon session of the schools; and from 2 to 3 o'clock Saturday afternoon.

TRUANT COMMISSIONERS.

G. F. STURTEVANT.

WILLIAM F. THORNTON.

JAMES KELLEY.

CAMILLE ROUSSIN.

Office Hours—Saturday, 2 to 3 o'clock p. m. Other days, 4 to 5 o'clock p. m. except during the summer vacation, when the office will be open from 9 to 10 o'clock a. m.

### Regular Meetings of the School Committee.

January . . . . .	28	July . . . . .	29
February . . . . .	25	August . . . . .	26
March . . . . .	25	September . . . . .	30
April . . . . .	29	October . . . . .	28
May . . . . .	27	November . . . . .	25
June . . . . .	24	December . . . . .	30

# CHARTER AMENDMENTS, ACTS OF 1896.

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## CHAP. 415.

AN ACT TO AMEND THE CHARTER OF THE CITY OF LOWELL.

Be it enacted, etc., as follows:

Section 1. All executive powers which are now by law vested in the City Council of the City of Lowell, or either branch thereof, shall hereafter be vested in and exercised by the Mayor of said city, except as hereinafter otherwise provided.

Sect. 2. The Mayor may suspend or remove any executive or administrative officer, except as hereinafter provided, for such cause as he shall deem sufficient, and shall set forth in the order of suspension or removal his reasons therefor, provided that no removal shall be made upon partisan grounds. The order of suspension or removal shall not take effect until it is approved by the City Council voting by yeas and nays. The City Council may, by a two-thirds vote in each branch, voting by yeas and nays, remove any of said officers without the consent of the Mayor; provided, however, that nothing contained in this section shall apply to any of the following departments, namely: the School Committee, the Police Commission, the Water Board, the Overseers of the Poor, or the Trustees of the Public Library.

Sect. 3. There shall be a department of supplies, and all material and supplies for the city shall be purchased by the chief or head of such department, subject to the approval of the Mayor. So far as is practicable, purchases shall be after public advertisement and under contract approved by the Mayor. All bills for materials and supplies shall show the date of purchase, date of delivery, the unit of price, the quality and quantity of articles purchased and received, the number and date of the order for purchase, and, if the purchase is under contract, the number and date of the contract, and shall be entered in full in an invoice book, which shall always be open to public inspection. The chief



of this department shall be elected by the qualified voters of the city voting at the annual municipal election, and shall hold his office for the next municipal year thereafter, subject to the provisions of section two of this act.

Sect. 4. The Mayor shall cause to be kept a record of all his official acts, and to aid him in his official duties may appoint one or more clerks.

Sect. 5. The heads of the several departments and offices shall have the power to appoint and employ and to discharge all subordinate officers and employees in their respective departments; and they shall keep a record, subject to inspection, of all so appointed and employed and of all discharged, and in all cases of discharge the grounds therefor; provided, however, that no removals shall be made upon partisan grounds.

Sect. 6. The heads of the several departments and offices shall have the general charge and management of all matters pertaining to their respective departments, and shall make and execute all contracts necessary therefor, except for the purchase of materials and supplies; but every contract made as aforesaid in which the amount involved exceeds three hundred dollars shall be approved by the Mayor before going into effect; provided, that nothing in this section shall be construed to prevent the City Council, by ordinance, from transferring any of the duties imposed upon an appointed head of a department by this act or by ordinance, excepting the purchase of materials and supplies, to another head of a department or board or commission.

Sect. 7. Neither the City Council or either branch thereof, nor any committee or member thereof, shall directly or indirectly take part in the employment of labor, the purchase of material, the construction, alteration or repair of any public works or other property, or in the care, custody or management of the same, or in general in the expenditure of public money, or in the conduct of the executive or administrative business of the city, except as may be necessary for defraying the contingent and incidental expenses of the City Council, or of either branch thereof; nor shall they or either of them take part in the making of contracts.

Sect. 8. No sum appropriated for a specific purpose shall be expended for any other purpose; and no expenditure shall be made and no liability shall be incurred by or on behalf of the city until the City Council has duly voted an appropriation sufficient to meet such expenditure or liability, together with all prior unpaid liabilities which are payable therefrom, except that after

the expiration of the financial year and before the making of the regular annual appropriations, liabilities payable out of the regular appropriation may be incurred to an amount not exceeding one-sixth of the total of the appropriation made for similar purposes in the preceding year; provided, however, that nothing herein contained shall be construed to restrict or limit the School Committee in any expenditure which it is now or may be hereafter authorized to make under any general law of the Commonwealth, or to restrict or limit payments on account of the permanent or temporary debt, or such as are required by law to be made to the Commonwealth.

Sect. 9. All revenues and all moneys accruing to the City of Lowell from any source whatever, except trust funds and the revenues of the Water Department, shall, when collected or paid into the treasury, be carried to one general account, to be known as the General Treasury Fund; and all appropriations by or on behalf of said city, except from trust funds and on account of the Water Department, shall be from such fund and as provided in section ten of this act.

Sect. 10. All bills or other claims, before they are finally certified by the Auditor or paid, shall pass the inspection of a committee of the City Council on accounts. Said committee shall consist of one member of the Board of Aldermen and two members of the Common Council, to be elected annually by ballot by the body they respectively represent. Said committee may report any such bill or claim to the City Council, with their reasons therefor, and no bill or claim so reported shall be passed by the Auditor or be paid without the consent of the Council. Said committee may require the opinion of the City Solicitor as to the legality of a bill or other claim.

Sect. 11. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or appropriation of the public moneys, or involving any debt or liability, and said vote shall be entered upon the records of each branch of the City Council.

Sect. 12. Less than a quorum of either branch of the City Council, or of the School Committee, or of the Board of Overseers of the Poor, may adjourn to a fixed day earlier than the next regular meeting, and shall have power to compel the attendance of absent members in such manner as the City Council may by ordinance provide.

Sect. 13. All acts or parts of acts and all ordinances of the City of Lowell inconsistent herewith are hereby repealed and annulled; provided, that no act or ordinance heretofore repealed shall thereby be revived; and, provided, also, that nothing in this act shall be taken to prohibit the City Council from abolishing any department, board, office or commission created by ordinance.

Sect. 14. The question of the acceptance of this act shall be submitted to the qualified voters of the City of Lowell at the annual State election in the present year, and the affirmative votes of a majority of the voters present and voting thereon shall be required for such acceptance. If so accepted, so much thereof as provides for the election of a Chief of the Department of Supplies shall take effect at the next annual municipal election, and the act shall take full effect on the first Monday of January in the year eighteen hundred and ninety-seven. [Approved May 16, 1896.]

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## ACTS OF 1897.

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[CHAP. 95.]

### AN ACT RELATIVE TO THE DUTIES AND POWERS OF CERTAIN OFFICERS OF THE CITY OF LOWELL.

Be it enacted, etc., as follows:

Section 1. The City Council of the City of Lowell, and each branch thereof, shall have and exercise all the power and authority relative to the election or appointment of city officers, or the confirmation of appointments to office, which were vested in them prior to the enactment of section one of chapter four hundred and fifteen of the acts of the year eighteen hundred and ninety-six.

Sect. 2. The Chief of the Fire Department of said city shall be elected by concurrent vote of both branches of the City Council.

Sect. 3. The City Council shall by ordinance determine what officers shall be the heads of the various departments of the

City Government. The head of the department of supplies may sell or dispose of the personal property of the city, upon the recommendation of the Mayor and of the head of the department to which such property belongs, except the products of the City Farm, which the Superintendent of said farm shall have the right to dispose of.

Sect. 4. All ordinances of said city inconsistent herewith are hereby annulled, and all acts and parts of acts inconsistent herewith are hereby repealed.

Sect. 5. This act shall take effect upon its passage.  
[Approved February 20, 1897.]

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## ACTS OF 1898.

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[CHAP. 173.]

### AN ACT RELATIVE TO APPOINTMENTS IN THE FIRE DEPARTMENT OF THE CITY OF LOWELL.

Be it enacted, etc., as follows:

Section 1. The Chief Engineer of the Fire Department of the City of Lowell may, on the recommendation of the Board of Engineers, appoint as members of the permanent force, or as call-men, without civil service examination, any person who has served as call or substitute call-man in said service for three or more successive years prior to the passage of this act.

Sect. 2. Said Chief Engineer shall have the power to discharge all subordinate officers and employees in the Fire Department of said city, except the members of said board, and with the approval of said board, to appoint and employ all such officers and employees.

Sect. 3. All acts and parts of acts inconsistent herewith are hereby repealed.

Sect. 4. This act shall take effect upon its passage.  
[Approved March 15, 1898.]



## ACTS OF 1899.

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[CHAP. 170.]

AN ACT RELATIVE TO THE ELECTION OF CITY OFFICERS BY CITY COUNCILS OR BY OTHER MUNICIPAL BODIES OR BOARDS.

Be it enacted, etc., as follows:

Section 1. Section one of chapter one hundred and twenty-nine of the acts of the year eighteen hundred and ninety-nine is hereby amended by striking out the whole of said section and inserting in place thereof the following: Section 1. Whenever in any city the election of any city officer is vested in the Common Council or in the Board of Aldermen, or in both acting jointly or concurrently, or in any other municipal body or board, the election shall not be valid unless it is made by a viva voce vote, each member who is present answering to his name when it is called by the clerk or other proper officer, and stating the name of the person for whom he votes, or declining to vote, as the case may be; and the clerk or other proper officer shall record every such vote.

Sect. 2. This act shall take effect upon its passage.  
[Approved March 20, 1899.]



# ORDINANCES OF THE CITY OF LOWELL.

PASSED SINCE 1894.

AN ORDINANCE AUTHORIZING THE CITY TREASURER TO ISSUE REGISTERED CERTIFICATES, NOTES OR BONDS IN EXCHANGE FOR CERTIFICATES, NOTES OR BONDS PAYABLE TO BEARER.

Be it ordained, etc., as follows:

The City Treasurer may, in accordance with the provisions of Section 5 of Chapter 77 of the Public Statutes, at the request of the owner or holder of any bond, promissory note or certificate of indebtedness of the City of Lowell, at any time while more than one year remains before the principal of such bond, note or certificate is payable, issue in exchange therefor a bond, note or certificate of same effect, payable to the owner or holder by name.

The City Treasurer may also, under like condition, issue registered certificates, in substitution for any mutilated, defaced or indorsed bonds, notes or certificates; and where a bond, note or certificate of any issue has been lost or destroyed, the City Treasurer, under the direction of the joint standing committee on finance, may issue in place thereof a new bond, note or certificate of the same effect.

The City Auditor, as well as the City Treasurer, shall keep a register of the dates, numbers and amounts of all bonds, notes and certificates issued by the City Treasurer, showing to whom they were issued, when they are payable, and if issued in exchange, for what they were substituted. [Approved May 12, 1896.]

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AN ORDINANCE AMENDING SECTION THIRTEEN OF CHAPTER ONE OF THE REVISED ORDINANCES SO AS TO PROVIDE THAT THE SALARIES AND COMPENSATION OF CITY OFFICERS WHEN ONCE ESTABLISHED SHALL CONTINUE UNTIL RE-ESTABLISHED OR CHANGED.

Be it ordained, etc., as follows:

Section 13 of Chapter 1 of the Revised Ordinances is hereby amended by striking out between the word "year" in the third

line of said section and the word "provided" in the sixth line thereof, the following words: "for the year commencing on the first Monday' of January next ensuing; and no change of salary shall be made to take effect during the time for which said salary was established," and inserting in place thereof the following: "provided that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section; and," so that said section as amended shall read as follows:

Section 13. The salaries and compensation of city officers shall be established in the month of December and after the annual municipal election shall have been held, in each year; provided, that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section; and provided that in case any new office shall be created, the salary of said newly created office may be fixed at any time; and the salaries or compensation fixed for the payment of said officers shall be in full for all services performed by them by virtue of their offices; and all sums of money received by them from any and every source, in discharge of said services, during any quarter of the fiscal year, shall at the expiration of said quarter be by them paid over or accounted for to the City Treasurer. [Approved May 12, 1896.]

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AN ORDINANCE REGULATING THE WEIGHING AND MEASURING  
OF CERTAIN ARTICLES PURCHASED BY THE CITY.

Be it ordained, etc., as follows:

All supplies of hay, grain, straw, coal, and any other material purchased for the use of the city or any department thereof exceeding one hundred pounds in weight and usually weighed, shall be weighed on the city scales, and all wood purchased for said city shall be measured by the City Measurer of Wood, and no bills shall be paid by the City Treasurer or approved by any committee for such article so furnished the city, unless the certificate of said weigher or measurer shall accompany or be attached to said bill. [Approved May 12, 1896.]

AN ORDINANCE TO PREVENT THE PLACING OF ASHES, GLASS, CROCKERY, ETC., IN OR ON THE PUBLIC STREETS OR WAYS.

Be it ordained, etc., as follows:

Section 1. Any person who shall put or place, or cause to be put or placed, in or upon any street, lane or alley, or other public place in this city, any ashes, glass, crockery, scrap iron, nails, tacks or any other article which would be liable to injure the feet of children or animals or the tires of bicycles or other vehicles which have wheels with rubber or pneumatic tires, shall be deemed guilty of a misdemeanor.

Sect. 2. Any person violating the provisions of the preceding section or who is guilty of the misdemeanor therein described, shall be liable to a fine not less than two dollars or more than twenty dollars for each offence. [Approved Oct. 9, 1896.

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AN ORDINANCE AMENDING SECTIONS ONE AND NINE OF CHAPTER TWENTY OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows:

Section 1. That Section 1 of Chapter 20 of the Ordinances of the City of Lowell be and the same is hereby amended by inserting after the word "engineer" in the second line of said section, the words "a first assistant engineer and three other," and by striking out the word "four" in the second line of said section, and by inserting after the word "removed" in the sixteenth line of said section, the words "the first assistant engineer shall be appointed by the Mayor and Aldermen in the month of March or April, or whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May, and until his successor is appointed, or he is removed; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith and shall continue therein until the expiration of the full term as existing at the time of said appointment, or until removed," and by inserting between the words

"said" and "assistant" in the seventeenth line of said section, the word "other," and by inserting after the word "engineer" in the twenty-eighth line of said section, and before the word "shall" in the twenty-ninth line of said section, the words "and first assistant engineer," so that said section shall read as follows:

Section 1. The Fire Department shall consist of a Chief Engineer, a First Assistant Engineer, who shall perform such duties as may be required of him by the Chief Engineer, and three other assistant engineers and as many enginemmen, hose-men, hook and ladder men, and other persons, to be divided into companies, as the number of engines and other fire apparatus of the city shall from time to time require; the Chief Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, and whenever a vacancy occurs, and he shall enter upon the discharge of the duties of said office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May or until he is removed; and if appointed after the first day of May of any year, he shall enter upon the discharge of the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at the time of his said appointment, or until removed. The First Assistant Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, and whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May and until his successor is appointed or he is removed; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at the time of his said appointment, or until he is removed; and the appointment of said other assistant engineers shall be made by the Mayor and Aldermen in the month of March or April annually, and whenever a vacancy occurs; and they shall hold their respective offices for the term of one year from the first day of May succeeding their appointment, or until others are chosen; all other members of the Fire Department shall be nominated by the Board of Engineers, and their names sent to the Mayor and Aldermen, and when by them appointed they shall be members of the Fire Department; provided, that vacancies may be filled at any time, and that the Mayor and Aldermen may at any time remove any and all of said



officers or members; except that the Chief Engineer and First Assistant Engineer shall not be removed without a hearing and cause shown thereat. No person shall be appointed a member of the Fire Department who does not sustain a good moral character and who is not a citizen of the City of Lowell.

Sect. 2. This ordinance shall take effect upon its passage.  
[Approved Nov. 27, 1896.

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AN ORDINANCE IN RELATION TO AN ORDINANCE ON OPENINGS  
AND EXCAVATIONS IN STREETS AND IMPOSING A PENALTY.

Be it ordained, etc., as follows:

Section 1. No person, firm or corporation shall dig up, make any excavation in, or in any manner change or interfere with the surface or grade of any street for the purpose of laying water, gas or sewer pipes or railway tracks, or for any other purpose, without first giving notice to the Superintendent of Streets, which notice shall state specifically the time when work will be commenced and the probable time within which it shall be completed.

Sect. 2. When any opening or excavation shall be made in any street in pursuance of Section 1, the Superintendent of Streets, by himself or by a servant or agent appointed by him for the purpose, shall see that the surface of such streets is left in good order and condition for public travel thereon. The expense for labor and material used in closing and covering such excavation shall in all cases be borne by the party causing the same to be made.

Sect. 3. Said Superintendent shall, when about to build a new sewer or repair an old one, notify all the abutters on that part of the line of said sewer when he proposes to do work so that said abutters may enter said sewer. He shall notify all abutters, when about to construct a new street, at least four weeks before beginning work, and when about to make a new surface of any street, at least two weeks before beginning work, shall notify the Superintendent of Lamps and Water Board and all persons authorized to place any obstruction in such street, and shall require and see that all said departments or persons having any work to be done in the street so designated, shall do all such work before the surface of such street is again



prepared for and opened to public travel, and after the completion of the work then done in such street, shall not permit any department or person who shall have been so notified, for the space of two years, to again disturb the surface of such street or way within the area of such previous disturbance, except in case of obvious necessity, to be verified in writing to, and approved by the Mayor, and except in cases of tracks or leaks in pipes, sewers or wires.

Sect. 4. Any person, firm or corporation who shall dig up, make any excavations, or in any way change or alter the grade or surface of any accepted street, without giving the notice mentioned in Section 1 of this ordinance, shall be punished by a fine not exceeding twenty dollars.

Sect. 5. All ordinances and parts of ordinances, resolutions and orders of the City Council inconsistent herewith, are hereby repealed. [Approved November 27, 1896.]

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AN ORDINANCE CREATING THE OFFICE OF SUPERINTENDENT OF COMMONS AND PROVIDING FOR THE ELECTION OF SUCH OFFICER.

Be it ordained, etc., as follows:

Section 1. There shall be chosen by concurrent vote of both branches of the City Council in the month of January, 1898, a Superintendent of Commons; and in the month of January in each year thereafter, the City Council by concurrent vote of both branches shall elect a Superintendent of Commons who shall hold his office for one year and until his successor is chosen, but said officer may be removed from office at any time by a two-thirds vote of both branches of the City Council voting by yeas and nays. Any vacancy which may occur in said office shall be filled in like manner by concurrent vote of the City Council for the remainder of the unexpired term.

Sect. 2. Said Superintendent of Commons shall be the head of the Department of Commons, and shall have the care and control of all the commons and parks of the city and of all the property connected with said department, and shall have the general care and management of all matters pertaining to said department; shall make and execute all contracts necessary therefor, except for the purchase of material and supplies, but every

contract made as aforesaid in which the amount involved exceeds three hundred dollars, shall be approved by the Mayor before going into effect. [Approved June 18, 1897.]

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AN ORDINANCE AMENDING SECTION TWELVE OF CHAPTER FIVE  
OF THE REVISED ORDINANCES.

Be it ordained, etc., as follows:

That Section 12 of the Revised Ordinances of the City of Lowell be and the same is hereby amended by striking out the words "nor on either side of Westford Street from the westerly line of Grand Street to the easterly line of Royal Street for a distance of fifty feet back from either line of Westford Street." [Approved July 21, 1897.]

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AN ORDINANCE AMENDING SECTION FIFTEEN, CHAPTER THIRTY-  
NINE OF THE REVISED ORDINANCES OF THE YEAR EIGHTEEN  
HUNDRED AND NINETY-FOUR.

Be it ordained, etc., as follows:

That Section 15, Chapter 39, of the Revised Ordinances of 1894 be and is hereby amended by striking out of the seventh line the word "forty-third," and inserting in place thereof the word "forty-fifth." [Approved July 21, 1897.]

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AN ORDINANCE REGULATING HAWKERS AND PEDDLERS.

Be it ordained, etc., as follows:

Section 1. No person shall hawk or peddle, sell or expose for sale within said city any of the articles enumerated in Section 1 of Chapter 68 of the Public Statutes, until he has been duly licensed by and has recorded his name and residence with the Board of Police of the City of Lowell, and has been assigned a number by said board, to be worn in such manner as said board may prescribe. Provided, however, that the foregoing provisions shall not apply to any other person than the one named in the license.

Sect. 2. No person hawking, peddling or selling, or exposing for sale any of the articles enumerated in Section 1 of Chapter 68 of the Public Statutes, shall cry his wares to the disturbance of the peace and comfort of the inhabitants of the city.

Sect. 3. No hawker or peddler shall carry or convey any of the articles enumerated in Chapter 68 of the Public Statutes in any manner that will tend to injure the public health, or disturb the public peace or comfort, nor otherwise than in vehicles and receptacles which have printed on them in letters and figures at least two inches in height the name of the person selling and the number given him by the Board of Police.

Sect. 4. Whoever violates any of the provisions of the preceding sections of this ordinance shall be liable to a penalty of not more than twenty dollars for each offence. [Approved July 29, 1897.]

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AN ORDINANCE TO AMEND SECTION EIGHTEEN OF CHAPTER SIX OF THE CITY ORDINANCES RELATING TO THE HITCHING OF HORSES TO LAMP POSTS.

Be it ordained, etc., as follows:

Section 18 of Chapter 6 of the City Ordinances is hereby amended by striking out all after the word "any" in the third line thereof and inserting instead thereof the words "lamp post maintained by the city," so that said section as amended shall read as follows:

Sect. 18. No owner, driver or other person having the care or ordering of a vehicle shall hitch or fasten the horse or horses attached thereto to any lamp post maintained by the city. [Approved January 1, 1898.]

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AN ORDINANCE AUTHORIZING THE CITY TREASURER TO PRESCRIBE THE SYSTEM OF BOOK-KEEPING FOR CERTAIN DEPARTMENTS AND OFFICERS RECEIVING MONEY BELONGING TO THE CITY AND PROVIDING FOR MORE FREQUENT RETURNS OF SUCH MONEY TO THE CITY TREASURY.

Be it ordained, etc., as follows:

Section 1. All departments and officers of the City Government, except the City Treasurer, whose official duty requires

the receipt of money belonging to the city, shall keep such books and records relating to the same as shall be prescribed by the City Treasurer.

Sect. 2. The heads of each department and officers receiving money for the city shall remit to the Treasurer as often as once in each month any balance that may be in the possession of such department or officer belonging to the city, except in case when the time for such payment into the City Treasury is prescribed by statute.

Sect. 3. The Joint Committee on Accounts shall annually, in connection with the annual examination of the accounts of the City Treasurer, examine, investigate and audit the books and accounts of all departments and officers receiving money for the city, and said committee shall make report of such examinations to the City Council.

Sect. 4. All heads of departments and officers whose official duty requires the rendering of bills to individuals, cities or towns for charges of any nature, shall hereafter deliver all such bills to the City Treasurer for collection through his office.

Sect. 5. Section 6 of Chapter 1 of the Revised Ordinances and all ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved January 1, 1898.

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AN ORDINANCE PROVIDING FOR ESTIMATES FOR APPROPRIATIONS AND FOR OTHER PURPOSES.

Be it ordained, etc., as follows:

Section 1. At the beginning of each municipal year and not later than the third Tuesday in January the Mayor shall make and transmit to the City Council an estimate of the expenditures required for the year. Such estimate shall be framed and itemized so as to show separately:

Par. 2. The amounts required by each department, office, board, commission or other subdivision of the executive branch of the government, and so far as may be practicable for the subdivisions of the work of each department.

Par. 3. The salary or compensation of each officer, deputy, assistant, clerk, or employee of the city not classed as a laborer. The amounts required for labor shall, when practicable, be stated separately from those for material and supplies.



Par. 4. Such estimate shall be in such form as to show in parallel columns, opposite each item, the amount paid for the previous year, and the amount unexpended at the close of such year.

Sect. 2. The Mayor shall make, or cause to be made, and shall transmit to the City Council with the estimate required by the preceding section:

Par. 2. An itemized estimate of the revenues of the year from all sources except taxation of real and personal property and polls.

Par. 3. A statement of the balance unpaid at the close of the previous year on account of temporary loans, and the amount due by financial years, as unpaid taxes on real and personal property and polls.

Par. 4. An itemized statement of the debt, with interest becoming due during the year, and the margin available for loans within the debt limit for the year.

Par. 5. An itemized statement of all orders, etc., of the City Council involving expenditures which have not been appropriated for. In all cases the finances of the water service shall be shown separately.

Sect. 3. All regular annual appropriations shall be for and only applicable to the liabilities incurred during the year in which they are made, any form of phraseology in the order, resolution or vote providing for the same, to the contrary notwithstanding.

Par. 2. It shall be the duty of the Auditor to close all regular annual appropriation accounts with the last secular day in December of the year for which the appropriations are made, and to credit the general treasury fund account or accounts with the water service, as the case may be, with the balance to the credit of such appropriations; and thereafter, no payments shall be made under such appropriations. He shall promptly report to the City Council the amount of each balance thus credited, and amount available in the general treasury fund, and the account with the water service, for the expenditures of the current year not otherwise appropriated.

Par. 3. All claims, accounts and bills against the City of Lowell under such appropriations remaining unpaid at such date, shall be numbered consecutively, and be entered by the Auditor in such order, in a permanent book of record, to be known as a



register of claims, so as to show the name of the claimant, the amount claimed and allowed, the nature of the service and the action had thereon. The Auditor shall transmit to the City Council on or before the first regular meeting night in February, of either branch of the City Council, a schedule of such claims with a condensed statement of the nature of each claim, and the action had thereon.

Sect. 4. The several estimates and statements called for by this ordinance shall on their receipt by either branch of the City Council be referred, without other action, to the Joint Committee on Appropriations.

Par. 2. The Committee on Appropriations shall consist of the Chairman and two additional members of the Board of Aldermen, and the President and three additional members of the Common Council.

Section 6 of Chapter 1 of the Ordinances of the City of Lowell is hereby repealed.

Par. 3. Said committee shall have access to all or any of the records and official papers of the city, shall have power to require from any officer or employee of the city such additional statement or statements relating to the expenditures and revenues of the city as it may deem essential, and to summon any officer or employee of the city to be present at any designated meeting of said committee and to remain in attendance until discharged by the committee; and any officer or employee who shall fail or refuse to comply with such request, order or summons may be reported to the City Council, or either branch thereof, for such action as it may have the power to take and see fit to exercise.

Sect. 5. The Committee on Appropriations shall make a final report in print, not exceeding two hundred copies, to the City Council or either branch thereof, on or before the fifteenth day of February of each year unless granted further time by the City Council.

Sect. 6. All ordinances and parts of ordinances conflicting with this ordinance are hereby repealed. [Approved January 1, 1898.]

AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF AN INSPECTOR OF WIRES AND DEFINING THE DUTIES OF SUCH OFFICER, IN ACCORDANCE WITH CHAPTER FOUR HUNDRED AND FOUR, ACTS OF 1890.

Be it ordained, etc., as follows:

Section 1. Within thirty days after the passage of this ordinance, there shall be appointed by the Mayor, subject to confirmation of the Board of Aldermen, an Inspector of Wires for the City of Lowell, who shall enter upon the duties of his office immediately, and shall hold said office, unless sooner removed, until the first day of February, 1901; and prior to the first day of February, 1901, and prior to the first day of February of every third year thereafter, there shall be appointed in like manner an Inspector of Wires who shall hold his office during a term of three years and until his successor is appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Inspector of Wires shall perform the duties prescribed by Section 3, Chapter 404 of the Acts of 1890, and such other duties as are or may be hereafter prescribed by the laws of the Commonwealth or the ordinances of the city. He shall annually in the month of January make a report to the City Council of the business of his office for the year ending on the thirty-first day of December next preceding. [Approved July 15, 1898.]

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AN ORDINANCE RELATING TO THE PERMANENT REPAIRS ON STREETS AND THE PLACING OF UNDERGROUND SERVICES THEREIN; ALSO TO THE NECESSARY REPAIRS OF SAME.

Be it ordained, etc., as follows:

Section 1. That before any street is paved with granite, concrete or other paving, macadamized or otherwise put in permanent repair by the city, the owners of land abutting on such street shall be notified at least four weeks previous to the time when such permanent improvements are to be commenced, that all underground services, whether for sewer, water, gas, electrical or other connections, shall be constructed and placed in said street previous to the date set for the making of the said permanent improvements.

Sect. 2. That all corporations or individuals having services laid in said street, or intending or desiring to construct the same, whether for gas, electric, telephone, telegraph, or for any service of whatsoever nature, or who shall desire to renew or repair services already constructed, shall be notified by the posting of a notice at the City Hall of the intention of the city to so repair such street, and by a notice which shall be published for six consecutive days in one morning and one evening newspaper printed in the City of Lowell, the last publication of said notice to be at least three weeks previous to the time stated for making said permanent improvements.

Sect. 3. That when any street has been so paved, macadamized, or otherwise put in permanent repair, it shall not be opened or torn up for the placing of any new underground construction of any nature whatsoever during five years next succeeding the date in said published and posted notices stating the intention of the city to place said street in permanent repair; provided, however, that in case repairs to any service become necessary, the same may be made after a permit has been granted by the Board of Aldermen, and said repairs shall be made under the supervision of the Superintendent of Streets. In case of leakage of gas or water pipes, the same may be repaired at once by the Gas Company or Water Board, and the surface of the street placed in a condition satisfactory to the Superintendent of Streets.

Sect. 4. Wherever on said street there may be unimproved land, and where no sewer, gas, water, or other necessary services have been constructed, the same shall be laid and constructed, to a point at least two feet beyond the outside line of the sidewalk on said street, one each of the services mentioned for gas, water and sewer connections, for each fifty feet of frontage of the said land on the said street, or at such distances as may be agreed upon by the owner of said land and the Superintendent of Streets. In case of neglect of the owner or of a corporation or individual to construct the same, said service for sewer, water and gas connections may be constructed by the city, and shall be paid for by the parties to whom rightfully belongs the construction of the same.

Sect. 5. Any violation of the foregoing conditions in regard to the digging up of streets shall be punished by a fine of not less than twenty dollars (\$20).

Sect. 6. All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved August 5, 1898.]

AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF A  
SUPERINTENDENT AND ASSISTANT SUPERINTENDENT OF  
STATE AID.

Be it ordained, etc., as follows:

Section 1. Within thirty days after the passage of this ordinance there shall be appointed by the Mayor, subject to confirmation of the Board of Aldermen, a Superintendent of State Aid and an Assistant Superintendent of State Aid for the City of Lowell, who shall enter upon the duties of their offices immediately and shall hold said offices, unless sooner removed, until the first day of February, 1899; and prior to the first day of February, 1899, and prior to the first day of February of every year thereafter, there shall be appointed in like manner a Superintendent of State Aid and an Assistant Superintendent of State Aid, who shall hold their offices during a term of one year and until their successors are appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Superintendent of State Aid shall disburse state aid and city aid under the direction of the Mayor and Board of Aldermen as prescribed by Chapter 279 of the Acts of 1893, Chapters 279 and 301 of the Acts of 1894, Chapter 279 of the Acts of 1896, Chapter 561 of the Acts of 1898, or any other laws of the Commonwealth, or that may be hereafter prescribed by the ordinances of the city. He shall annually, in the month of January, make a report to the City Council of the business of his office for the year ending on the thirty-first of December next preceding.

Sect. 3. Said Assistant Superintendent of State Aid shall perform such duties as may be prescribed by the Superintendent of State Aid. [Approved September 27, 1898.]

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AN ORDINANCE AMENDING SECTION SIX OF CHAPTER NINE OF  
THE REVISED ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows:

That Chapter 9 of the Revised Ordinances of the City of Lowell be amended by striking out Section 6 and substituting therefor the following:



Sect. 6. The City Treasurer shall receive and have the care and custody of all sums of money paid the city by persons for the perpetual care of lots in any of the city cemeteries, and give the vouchers of the city therefor, and money so received shall constitute a special fund to be known as the "Cemetery Fund for the perpetual care of lots." The Treasurer shall not receive a sum of money less than one hundred dollars (\$100.00) for the perpetual care of lots in any of the city cemeteries or public burial grounds. The Treasurer shall notify the Superintendent of the cemetery of all such payments, together with the description of the lots and graves on account of which such payments are made, and annually, at such time as the Trustees of Public Burial Grounds request, shall pay over to them four per centum as interest upon all sums so paid to and receipted by him. The Treasurer shall invest the moneys of this fund in securities in which by law the funds of savings banks may be invested, and pay the amount of interest realized thereon into the City Treasury. [Approved October 11, 1898.

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AN ORDINANCE RELATING TO THE CONSTRUCTION AND REPAIR  
OF BUILDINGS.

Be it ordained, etc., as follows:

Section 1. Before the repair, erection, construction or material alteration of any building, the owner, architect or builder thereof shall file with the Superintendent of Buildings a statement in writing, giving the intended location of such building, its dimensions, materials, manner of construction and estimated cost. If such a building is to be repaired, erected or materially altered within the fire limits of the city, such owner, architect or builder shall, in addition to the statement aforesaid, submit for examination full specifications and plans of the proposed repairs, buildings or alterations; the owner or contractor shall also sign an agreement that the proposed work shall be done in accordance with the description set forth in such plans, specifications and statement, and all such matters and things connected with such work shall be done in strict compliance with this chapter. If it appears from said statement, plans and specifications that the building to be erected, altered or repaired will conform to the provisions of this chapter, so far as applicable thereto, then the Superintendent of Buildings shall issue a permit. No person



shall repair, construct or materially alter any building without such permit.

Sect. 2. The Superintendent of Buildings shall furnish suitable blanks upon which applications shall be made; and such applications shall be recorded by the Assessors in a book provided for the purpose, each page of which shall be a duplicate of such application for the erection, construction or material alteration of any building in the City of Lowell after the passage of this ordinance.

Sect. 3. This ordinance shall take effect upon its passage.  
{Approved December 29, 1898.

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AN ORDINANCE RELATING TO ASSESSMENT OF TAXES IN THE  
CITY OF LOWELL.

Be it ordained, etc., as follows:

Chapter 3 of the Revised Ordinances of 1894 is hereby amended by striking out all after Section 1 of said chapter, and substituting in place thereof the following:

Sect. 2. The Board of Assessors shall annually, in the month of January, or as soon as practicable thereafter, organize, by choosing one of their number to act as Chairman; said Chairman shall not receive extra compensation, and all members of the Board shall devote their whole time to the service of the city.

Sect. 3. It shall be the duty of the Assessors of Taxes to complete their assessment and place the list of taxes in the hands of the Collector of Taxes on or before the first day of September, annually; and they shall, on or before the first day of September, annually, indicate on said list the residence of the several taxpayers for that year and the year next preceding.

Sect. 4. When any tax shall be abated in whole or in part by the Assessors of Taxes, they shall make a record thereof in a book to be kept by them for that purpose, which record shall contain the names of all persons whose taxes may be so abated, and the reasons for such abatement; and they shall also annually, in the month of January, make out and transmit to the City Council a full report of the work of their Board, said report to show the total valuation of the city, amount of real estate, amount of personal estate, total corporation valuation in detail,

total valuation in bank stock, street-watering assessment, number of polls, name, amount and reason of any abatement of taxes, and such other items as may be of interest to the public. Said figures to be in a column parallel to a column containing the figures of the preceding year.

Sect. 5. The Assessors shall annually, on the thirty-first day of December, report to the Auditor all abatements of taxes made by them during the year ending on said day, distinguishing the abatements made on the different years' taxes, and whether abated before or after collection.

Sect. 6. The Assessors shall have full power to hire as many temporary clerks, not to exceed six, as may be necessary to assist them in the performance of their duties, the compensation of said clerks not to exceed two dollars and fifty cents per day, and they shall only be employed during the months of May to September inclusive. Provided, however, that permanent clerks, not to exceed two, one to be known as Chief Clerk, may be employed the whole year at such compensation as the Board may determine. They shall also have the power to employ six temporary assistants during the months of May and June for the purpose of obtaining the lists of polls and incidental personal property, compensation not to exceed three dollars per day. Said Assistant Assessors shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen and Common Council.

Sect. 7. This ordinance shall take effect upon its passage.  
[Approved February 28, 1899.]

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AN ORDINANCE ESTABLISHING AN INSPECTION OF WIRES  
DEPARTMENT, AND GOVERNING THE SAME.

Be it ordained, etc., as follows:

Section 1. An Inspection of Wires Department is hereby established, of which the Inspector of Wires shall be the head.

Sect. 2. The Inspector of Wires shall have supervision of all electric and other wires erected upon, over, or under any street, way, or building, and of every wire within any building where such wire is designed to carry an electric current, and shall have authority over, and shall inspect such wires, their condition, attachments, insulation, supports and appliances; he shall require all persons and corporations owning or operating

wires to place and arrange all posts, arms, fixtures, insulating supports, attachments and appliances so as to secure safety to life and property, and shall see that the provisions of Chapter 404 of the Acts of 1890 and all other laws, ordinances and regulations relating to electric and other wires are strictly enforced, and shall give prompt notice to any person or corporation owning or operating any such wire, when in his judgment the same is unsafe, or is not placed, kept and maintained in accordance with the requirements of said chapter or the provisions of any other law, ordinance or regulation.

Sect. 3. Said Inspector shall, at least once in each year, inspect all posts supporting electric or other wires upon or over any street or building, and all supports of such wires when attached to buildings, and ascertain if said posts and supports are kept in proper condition and not weakened by decay or other causes; and in case any person or corporation owning, leasing, or operating wires shall neglect or refuse to maintain said supports in proper condition for safety, the Inspector shall cause said fixtures and supports to be put in proper condition at the expense of the person or corporation owning or operating the same, after first giving the person or corporation due notice in writing of his intended action.

Sect. 4. It shall be the duty of the Inspector to cause to be removed all dead wires of whatever nature, attached to buildings, if, in his judgment, they are in a dangerous condition or liable to become dangerous to life or property, and he shall notify in writing the person or corporation owning, leasing, or operating such wires of his desire for the removal of any wire, and give them at least ten days in which to comply with the requirements, except in cases in which, in his judgment, there is immediate liability of injury to persons or property from the wire, and in all such cases the notice shall require their removal forthwith. In the event of the refusal of any person or corporation to take proper action, the Inspector may cause the work to be done and the expense to be charged to the owners.

Sect. 5. No person or corporation shall allow any pieces of wire to be left on the surface of any street or sidewalk; or to permit unused fixtures, coils or loose ends of wire to remain attached to any cross arm or post more than twenty-four hours without special permission.

Sect. 6. Every person or corporation operating electric or other wires over or under any street, way or building in the



city, upon request of the Inspector shall furnish within fifteen days thereafter accurate lists of the posts or other supports of their wires, the location of conduits and manholes, with information as to location, where, and what service is rendered, whether telegraphic, telephonic, power, or electric lighting, and in the latter case, whether arc or incandescent current is used.

Sect. 7. The said Inspector, upon request, shall also be furnished by any person or corporation operating or owning electric wires with such information as to kind, size, and tested strength of supporting or service wires, the maximum volts used, together with such other information as may be necessary to the faithful and effectual discharge of his duties.

Sect. 8. All wires, appliances and apparatus in the interior of public buildings or on private premises which are intended for the transmission of electricity, either for isolated lighting or power, or to be connected with an outside circuit, shall be made, placed and arranged, and at all times kept safe to the satisfaction of the Inspector; and said Inspector may at all proper and reasonable times have access to such wires and apparatus.

Sect. 9. In no case shall a current of electricity be connected to any system of wiring or apparatus intended to be used for power or lighting, without permission being first obtained and a written permit granted by the Inspector of Wires; the jurisdiction of the Inspector is intended to include all public and private electrical systems that are now and may hereafter be installed in the City of Lowell.

This ordinance is not intended to govern or call for the inspection of electric bell systems, private or public telephones inside of public or private buildings, or the interior apparatus or boxes of the fire alarm or police system of the city.

Sect. 10. No person or corporation shall change the position or make additions to any wiring system, or install any new work or electrical apparatus without first notifying the Inspector, and he given full opportunity to inspect the same before such work is completed; and when any electric wires designed to carry an electric light or power current are to be concealed, the Inspector must be notified before work is commenced, and he shall give his permission and approval for all such work and connections immediately, unless in his judgment such apparatus or wiring endangers life or property or is not in accordance with the laws and ordinances, or in conformity with the established insurance rules.

Sect. 11. The Inspector shall require that the established rules and regulations of the National Board of Fire Underwriters shall be complied with, both for outside and interior construction.

Sect. 12. It shall be the duty of the Inspector of Wires to carry out any order of the Mayor and Board of Aldermen on any matters referred to him by them, coming under the laws or ordinances, and all questions of right and authority shall be determined by the Mayor and Board of Aldermen upon any appeal or refusal of any person or corporation to comply with the requirements of the Inspector and the laws and ordinances.

Sect. 13. The Inspector of Wires shall keep a record of all inspections and permits in a book provided for the purpose, and this book shall be open to inspection (at all reasonable times) by any interested parties.

The Inspector shall make monthly reports of his doings to the Mayor and Board of Aldermen, and an annual report to the City Council.

Sect. 14. Whoever violates or fails to comply with any of the provisions of this ordinance after being duly notified in writing by the Inspector shall forfeit and pay for each offence not less than ten or more than twenty dollars.

Sect. 15. The Inspector of Wires shall be on duty eight hours per day, from nine A. M. till five P. M. each regular working day, and at such other times as cases of emergency may require, and shall receive such compensation as may be determined by the City Council. Said Inspector shall devote his whole time to the service of the city, and shall engage in no other business or calling. [Approved July 26, 1899.]

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AN ORDINANCE TO PROVIDE FOR THE ELECTION OF A CITY  
PHYSICIAN AND DEFINING HIS DUTIES.

Be it ordained, etc., as follows:

Section 1. There shall be chosen immediately after the approval of this ordinance and thereafter annually in the month of March or April, and whenever a vacancy occurs, by concurrent vote of both branches of the City Council, a City Physician, who shall enter upon the duties of his office on the first day of



May in each year and until his successor is chosen, unless sooner removed therefrom in the manner provided by law.

Sect. 2. It shall be the duty of the City Physician to attend upon all patients under the care of the city authorities at the City Farm or Police Station; to make a report annually in April to the City Council covering the service rendered by him during the previous year. In case of an alarm by any infectious or contagious disease to give to either branch of the City Council or any committee thereof all such professional advice and counsel as they may request of him, and generally to perform such other professional services as may reasonably be required of him by the Mayor or the City Council, or the Superintendent of the City Farm.

Sect. 3. Chapter 12 of the Revised Ordinances is hereby repealed. [Approved June 27, 1900.

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AN ORDINANCE PROHIBITING HEAVY TEAMING AND TRUCKING  
UPON THE SPEEDWAY PORTION OF PAWTUCKET BOULEVARD.

Be it ordained, etc., as follows:

Section 1. The driving or drawing of heavy wagons, carts, trucks or similar vehicles used for purposes of transportation of stone, lumber, coal, ice, express packages, groceries or other merchandise, requiring for the transportation of the same a vehicle exceeding in weight a family carriage, buggy, carry-all or similar vehicle used principally for pleasure driving or recreation, is hereby prohibited upon that portion of Pawtucket Boulevard commonly called the Speedway; provided, however, that this prohibition shall not apply to any vehicle used for the purpose of transporting any article or material necessary for the improvement or repair of said speedway, or of any portion of said boulevard, or of the structures connected with the water plant in said boulevard.

Sect. 2. Any person who shall violate any provisions of Section 1 of this ordinance shall be punished by a fine not exceeding twenty dollars for each offence. [Approved July 31, 1900.

AN ORDINANCE PROVIDING FOR THE PRINTING OF THE UNION  
LABEL ON ALL PRINTING FOR THE CITY OF LOWELL.

Be it ordained, etc., as follows:

Section 1. That all printed matter for the City of Lowell shall hereafter bear the imprint of the Union Label of the Allied Printing Trades Council of Lowell, Mass.

Sect. 2. That in calling for bids for city printing hereafter, the Chief of the Department of Supplies shall make stipulation in accordance with Section 1 of this ordinance.

Sect. 3. This ordinance shall take effect upon its passage.  
[Approved December 15, 1900.]

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AN ORDINANCE ESTABLISHING THE OFFICE OF CLERK OF  
COMMITTEES.

Be it ordained, etc., as follows:

Section 1. There shall be a Clerk of Committees, to be chosen by concurrent vote of both branches of the City Council as soon as may be after the enactment of this ordinance, who shall enter upon the duties of his office immediately after his election, and hold the same for a period of three years from and after January 1, 1901, and until his successor is elected and qualified. Thereafter the City Council shall, in the month of January following the expiration of each three-year term, choose a Clerk of Committees, who shall hold office for three years. Such Clerk of Committees shall receive such compensation as the City Council shall determine.

Sect. 2. He shall make a proper record in books kept for the purpose, of all proceedings and transactions, and keep a calendar of all meetings of the committees of which he is clerk. He shall perform such other duties and services, in making estimates and computations, drawing orders and reports, and rendering assistance, as such committees shall require.

Sect. 3. On the request of the Chairman of any committee, the said Clerk of Committees shall authorize the City Messenger to notify all committee members of the time and place of meeting.

Sect. 4. This ordinance shall take effect upon its passage.  
[Passed December 18, 1900.]

# POPULATION, LEGAL VOTERS, ETC., BY WARDS.

Wards	Census 1900	Precincts	REGISTERED VOTERS									VOTE FOR	
			Dec., 1899			Nov., 1900			Dec., 1900			MAYOR	
			City Election			State Election			City Election			1900	
			Males	Females	Total	Males	Females	Total	Males	Females	Total	Dimon	Putnam
1	8,248	1	520	31	551	502	29	531	510	29	539	203	196
		2	509	50	559	501	41	542	519	41	560	213	193
		3	392	13	405	397	11	408	408	11	419	183	173
2	10,821		1421	94	1515	1400	81	1481	1437	81	1518	599	562
		1	371	21	392	346	16	362	368	16	384	217	103
		2	475	17	492	433	16	449	453	16	469	352	55
3	10,052	3	532	11	543	516	11	527	544	11	555	431	54
			1378	49	1427	1295	43	1338	1365	43	1408	1000	212
		1	528	39	567	543	38	581	566	38	604	339	128
4	9,315	2	637	17	654	631	17	648	638	17	655	164	313
		3	640	29	669	630	26	656	637	26	663	123	344
			1805	85	1890	1804	81	1885	1841	81	1922	626	785
5	8,973	1	495	12	507	532	12	544	542	12	554	302	122
		2	484	27	511	500	21	521	511	21	532	362	98
		3	679	30	709	673	3	676	689	3	692	521	94
6	10,706		1658	69	1727	1705	36	1741	1742	36	1778	1185	314
		1	432	27	459	427	21	448	447	21	468	255	119
		2	537	25	562	550	20	570	566	20	586	381	93
7	18,490	3	445	14	459	446	10	456	464	10	474	345	60
			1414	66	1480	1423	51	1474	1477	51	1528	981	272
		1	680	98	778	699	85	784	703	85	788	157	388
8	9,655	2	537	26	563	538	23	561	546	23	569	239	216
		3	572	24	596	599	24	623	618	24	642	308	233
			1789	148	1937	1836	132	1968	1867	132	1999	704	837
9	8,709	1	614	37	651	608	22	630	642	22	664	232	323
		2	684	134	818	725	104	829	735	104	839	337	273
		3	639	53	692	646	35	681	657	35	692	266	255
9	94,969		1937	224	2161	1979	161	2140	2034	161	2195	835	851
		1	701	23	724	735	21	756	741	21	762	147	385
		2	737	23	760	775	20	795	782	20	802	153	397
9	8,709	3	645	40	685	683	22	705	688	22	710	293	237
			2083	86	2169	2193	63	2256	2211	63	2274	593	1019
		1	479	89	568	480	77	557	487	77	564	204	188
9	8,709	2	549	63	612	576	55	631	584	55	639	288	201
		3	748	34	782	778	13	791	803	13	816	395	270
			1776	186	1962	1834	145	1979	1874	145	2019	887	659
9	94,969		15,261	1,007	16,268	15,469	793	16,262	15,848	793	16,641	7,410	5,511

## POPULATION OF THE CITY OF LOWELL.

Year.	Population.	Year.	Population.	Year.	Population.	Year.	Population.
1828	3,532	1840	20,981	1865	30,990	1890	77,696
1830	6,477	1844	25,163	1866	36,878	1895	84,359
1832	10,254	1846	29,127	1870	40,928	1900	94,969
1833	12,963	1850	33,383	1875	49,688	....	.....
1836	17,633	1855	37,554	1880	59,485	....	.....
1837	18,010	1860	36,827	1885	64,107	....	.....

# CITY OFFICERS.

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## WHEN ELECTED OR APPOINTED.

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“All officers elected or appointed by the City Council, or either branch thereof, shall hold their offices according to the tenure of the same and until their successors are chosen and qualified, unless otherwise provided for.”

### AGENT OF THE BOARD OF HEALTH.

Appointed by the Board of Health, under civil service rules.

### ASSESSORS OF TAXES.

One chosen in the month of January or February by concurrent vote of the City Council for the term of three years. [Ordinance, Chapter 3, Section 1.

### ASSISTANT ASSESSORS.

Appointed by the Mayor in March or April, for May and June, subject to confirmation by the City Council. [Ordinances approved February 28, 1898.

### ASSISTANT ENGINEERS OF THE FIRE DEPARTMENT.

Appointed by the Mayor and Aldermen in March or April, the first assistant for the term of three years, the others for one year, commencing May first. [Ordinance approved November 27, 1896.

### AUDITOR OF ACCOUNTS.

Chosen by concurrent vote of the City Council in January or February, for one year, commencing the first Monday in April. [Ordinances, Chapter 2, Section 1.

### ASSISTANT CITY CLERK.

Appointed by the City Clerk, subject to confirmation by the Board of Aldermen. [Ordinances, Chapter 8, Section 2.



## BOARD OF EXAMINERS OF PLUMBERS.

One member appointed by the Board of Health for the term of one year, commencing May first. The chairman of the Board of Health and the Superintendent of Public Buildings are members of the Board, ex-officio. [Ordinances, Chapter 28, Section 6.

## BOARD OF HEALTH.

One member appointed by the Mayor and Aldermen in January for the term of three years, commencing the first Monday in February. [Chapter 332, Acts of 1895.

## BOARD OF POLICE.

One member appointed by the Mayor every two years for the term of six years, commencing the first Monday in June. [Chapter 428, Acts of 1894. Chapter 187, Acts of 1895.

## CHAIRMAN OF THE BOARD OF ALDERMEN.

Chosen by the Board of Aldermen on the first Monday in January, or as soon thereafter as may be. [City Charter, Section 12.

## CHIEF ENGINEER OF THE FIRE DEPARTMENT.

Chosen by concurrent vote of the City Council in March or April for the term of three years, commencing May first. [Chapter 95, Section 2, Acts of 1897. Ordinance approved November 27, 1896.

## CITY CLERK.

Chosen annually by the City Council in convention, as soon after organization as convenient. [City Charter, Section 17.

## CITY MESSENGER.

Chosen by concurrent vote of the City Council in January for the term of one year, commencing the first Monday in February. [Ordinances, Chapter 10, Section 1.

## CITY PHYSICIAN.

Chosen annually in March or April by concurrent vote of the City Council for one year, commencing May first. [Ordinances, 1900.

## CITY SOLICITOR.

Chosen by concurrent vote of the City Council in January or February for the term of one year, commencing April first. [Ordinances, Chapter 11, Section 1.

## CITY TREASURER AND COLLECTOR OF TAXES.

Chosen annually by the City Council in convention as soon after organization as convenient, for the term of one year, commencing April first. [City Charter, Section 17. Ordinances, Chapter 9, Section 1.

## CIVIL ENGINEER FOR THE CITY.

Chosen by concurrent vote of the City Council in January or February for the term of one year, commencing April first. [Ordinances, Chapter 13, Section 1.

## CIVIL SERVICE EXAMINERS.

Appointed by the State Civil Service Commissioners.

## CLERK OF COMMITTEES.

Chosen by concurrent vote of the City Council in January for three years. [Ordinances, 1900.

## CLERK OF THE COMMON COUNCIL.

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. [City Charter, Section 14.

## CLERKS EMPLOYED IN DEPARTMENTS.

Appointed by heads of departments under civil service rules. [Chapter 415, Section 5, Acts of 1896.

## CLERK OF THE WATER BOARD.

Chosen by the Water Board in June for the term of one year. [Ordinances, Chapter 45, Section 2.

## COMMISSIONERS OF SINKING FUNDS.

One chosen in December by concurrent vote of the City Council for the term of three years, commencing January first. [Public Statutes, Chapter 29, Section 10.

## COMMITTEE ON ACCOUNTS. (Three.)

On the first Monday in January, or as soon thereafter as may be, one member chosen by the Board of Aldermen from that Board, and two members of the Common Council by said Council. [Chapter 415, Section 10, Acts of 1896.

## COMMITTEE ON FINANCE. (Five.)

On the first Monday in January, or as soon thereafter as may be, one member of the Board of Aldermen, to be elected by that Board, and three members of the Common Council, to be elected by said Council. The Mayor is a member ex-officio. [Ordinances, Chapter 1, Section 2.

## CONSTABLES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [City Charter, Section 19. Ordinances, Chapter 41, Section 2.

## ELECTION OFFICERS.

Appointed by the Mayor and Aldermen in September, or as soon thereafter as may be, for the term of one year, commencing November first. [Chapter 548, Section 168, Acts of 1898.

## FENCE VIEWERS.

Nominated by the Mayor in January or February and chosen by concurrent vote, commencing in the Board of Aldermen, for the term of one year. [Ordinances, Chapter 41, Section 1.

## FIELD DRIVERS.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. [Ordinances, Chapter 41, Section 1.

## FIREMEN.

Appointed by the Chief Engineer on the recommendation of the Board of Assistant Engineers, under civil service rules. [Chapter 178, Acts of 1898.

## FISH WARDEN.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Public Statutes, Chapter 91, Section 42.

## HEALTH COMMISSIONER.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council for the term of one year. [Ordinances, Chapter 41, Section 1.

## INSPECTOR OF ANIMALS.

Appointed by the Mayor and Aldermen in March, subject to the approval of the State Board of Cattle Commissioners, for the term of one year, commencing April first.

## INSPECTOR OF BALE OR BUNDLE HAY.

Appointed by the Board of Aldermen in January or February for the term of one year. [Ordinances, Chapter 21, Section 1.

## INSPECTORS OF BOILERS.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Public Statutes, Chapter 102, Section 49.

## INSPECTORS OF THE HEALTH DEPARTMENT.

Appointed by the Board of Health under civil service rules.

## INSPECTORS OF PETROLEUM OILS.

Appointed by the Mayor and Aldermen, upon request of five or more citizens. [Public Statutes, Chapter 59, Section 6.

## INSPECTOR OF MILK, VINEGAR AND OLEOMARGARINE.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 41, Section 2.

## INSPECTORS OF PLUMBING.

Appointed by the Board of Health. [Ordinances, Chapter 28, Section 8.

## INSPECTORS OF PROVISIONS.

Appointed by the Board of Health.

## INSPECTORS WATER DEPARTMENT.

Appointed by the Water Board under civil service rules.

## INSPECTOR OF WIRES.

Appointed by the Mayor and Aldermen in January for the term of three years, commencing February first.

## LIBRARIAN OF THE CITY LIBRARY.

Chosen by the Trustees of the City Library. [Ordinances, Chapter 14, Section 3.

## MAYOR'S CLERK.

Appointed by the Mayor. [Chapter 415, Section 4, Acts of 1896.

## MEASURERS OF GRAIN.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 41, Section 2.

## MEASURERS OF UPPER LEATHER.

Appointed by the Mayor and Aldermen in April for the term one year. [Ordinances, Chapter 41, Section 2.

## MEASURERS OF WOOD AND BARK.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 46, Section 2.

## MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR RAILROAD CARS INTO THE CITY.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 46, Section 1.

## POLICE OFFICERS.

Appointed by the Board of Police under civil service rules.

## POUND KEEPER.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. [Ordinances, Chapter 41, Section 1.

## PRESIDENT OF THE COMMON COUNCIL.

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. [City Charter, Section 14.

## REGISTRARS OF VOTERS.

One member appointed by the Mayor and Aldermen in March or April for the term of three years, commencing May first. The City Clerk is a member ex-officio. [Chapter 548, Section 26, Acts of 1898.

## SEALER OF WEIGHTS AND MEASURES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter, 41, Section 2.



## SECRETARY OF THE OVERSEERS OF THE POOR.

Appointed by the Overseers of the Poor.

## SUPERINTENDENT OF THE CITY FARM.

Appointed by the Overseers of the Poor.

## SUPERINTENDENT OF THE CITY SCALES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 21, Section 1.

## SUPERINTENDENT OF COMMONS.

Chosen by concurrent vote of the City Council in January for the term of one year. [Ordinance approved June 18, 1897.

## SUPERINTENDENT OF PUBLIC BUILDINGS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. [Ordinances, Chapter 5, Section 1.

## SUPERINTENDENT OF SCHOOLS.

Chosen by the School Committee in July or August for the term of one year. [Ordinances, Chapter 40, Section 1.

## SUPERINTENDENT OF STATE AID AND ASSISTANT.

Appointed by the Mayor and Aldermen in January for the term of one year, commencing February first. [Ordinance approved September 27, 1898

## SUPERINTENDENT OF STREETS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. [Ordinances, Chapter 39, Section 1.

## SUPERINTENDENT OF WATER WORKS.

Chosen by the Water Board in March for the term of one year, commencing April first. [Ordinances, Chapter 45, Section 2.

## SURVEYORS OF HIGHWAYS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. [City Charter, Section 17. Ordinances, Chapter 39, Section 1.

## SURVEYORS OF LUMBER.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. [Ordinances, Chapter 39, Section 1.

## SURVEYORS OF PLASTERING, BRICK OR STONE WORK AND PAINTING.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 41, Section 2.

## TRUANT COMMISSIONERS.

Appointed by the School Committee. [Chapter 496, Section 33. Acts of 1898.

## TRUSTEES OF THE PUBLIC LIBRARY.

One member appointed in December by the Mayor and Aldermen for the term of five years, commencing the second Monday in January. The Mayor is a member ex-officio. [Ordinances, Chapter 14, Section 2.

## TRUSTEES OF PUBLIC BURIAL GROUNDS. (Three.)

One member appointed by the Mayor and Aldermen in December for the term of two years, commencing the first Monday in January. The Mayor is a member ex-officio. [Chapter 337, Section 2, Acts of 1891.

## WATER BOARD.

One member chosen in January or February by concurrent vote of the City Council for the term of four years, commencing the second Monday in March. [Ordinances, Chapter 45, Section 1.

## WEIGHERS OF COAL.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 41, Section 2.

## WEIGHERS OF HAY AND OTHER ARTICLES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 21, Section 1.

CATALOGUE

OF THE

Government of the City of Lowell

IN

CHRONOLOGICAL ORDER OF SERVICE

From Its Institution 1836, to 1900, Inclusive.



**1836.****MAYOR:****ELISHA BARTLETT.****ALDERMEN:**

William Austin, resigned Oct. 10.	Benjamin Walker.
Joseph Tapley, elected November.	Oliver M. Whipple.
Seth Ames.	Alexander Wright.
Aaron Mansur.	

**SAMUEL A. COBURN, City Clerk.****COMMON COUNCIL:**

John Clark, President.	Stephen Mansur.
Henry J. Baxter.	John Mixer.
Jonathan Bowers.	Thomas Nesmith.
George Brownell.	David Nourse.
James Cook.	Thomas Ordway.
David Dana.	James Russell.
Erastus Douglass.	John A. Savels.
Josiah B. French.	Sidney Spalding.
Cyril French.	Weld Spalding.
Samuel Garland.	Jonathan Tyler.
Horatio W. Hastings.	Tappan Wentworth.
Horace Howard.	William Wyman.

**GEORGE WOODWARD, Clerk, died. ALBERT LOCKE, elected.****1837.****MAYOR:****ELISHA BARTLETT, † '36.****ALDERMEN:**

Seth Ames, *'36.	Joseph G. Kittredge.
John Aiken.	Joshua Swan.
Seth Chellis	Alexander Wright, *'36.

**SAMUEL A. COBURN, City Clerk.****COMMON COUNCIL:**

<b>WARD 1.</b>	<b>WARD 4.</b>
Joshua Abbott.	William Baker.
James K. Fellows.	Elijah M. Read.
Jesse Phelps.	Charles H. Wilder.
Walter Wright.	William W. Wyman.
<b>WARD 2.</b>	<b>WARD 5.</b>
William Fiske.	George Brownell, '36.
Thomas Nesmith, '36.	Osgood Dane.
Josiah Osgood.	James Russell, '36.
Joseph Tyler.	Tappan Wentworth, '36.
<b>WARD 3.</b>	<b>WARD 6.</b>
Joseph M. Dodge.	Andrew Bird.
Elisha Huntington, President.	Benjamin H. Gage.
William North.	Jona. T. P. Hunt.
Joseph Tapley.	Abram Tilton.

**ALBERT LOCKE, Clerk.**

The figures without other marks indicate membership of the Common Council those years. † Mayor that year. \* Alderman that year. ‡ President of the Common Council that year.



**1838****MAYOR:****LUTHER LAWRENCE.****ALDERMEN:**

Benjamin F. French.  
Charles L. Tilden.  
Oliver M. Whipple, \*'36.

George H. Carleton.  
George Brownell, '36, '37.  
Seth Chellis, \*'37.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

Jesse Phelps, '37.  
Walter Wright, '37.  
Eliphalet Brown.  
Perez Fuller.

**WARD 2.**

William Fiske, '37.  
Aaron H. Sherman.  
William Upham.  
Henry J. Baxter, '36.

**WARD 3.**

Thomas Hopkinson.  
Elisha Huntington, † '37, President.  
Horace Howard, '36.  
John Mixer, '36.

**WARD 4.**

David Dana, '36.  
Perley Hale.  
Benjamin Walker, \*'36.  
William Baker, '37.

**WARD 5.**

Garret J. Bradt.  
Benjamin Wilde.  
Erastus Douglass, '36.  
Rufus Paul.

**WARD 6.**

Eli Cooper.  
Thomas L. Randlett.  
James L. Foot.  
Calvin Goodspeed.

**ALBERT LOCKE, Clerk.****1839.****MAYOR:****LUTHER LAWRENCE. — [Died in April.]****ELISHA HUNTINGTON, † '37, † '38.****ALDERMEN:**

Benjamin F. French, \*'38.  
John O. Green.  
Charles L. Tilden, \*'38.

George H. Carleton, \*'38.  
John Clark, † '36.  
Oliver M. Whipple, \* '36, \*'38.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

Walter Wright, '37, '38.  
Harlin Pillsbury.  
Eliphalet Brown, '38.  
Forrest Eaton.

**WARD 2.**

Jonathan Tyler, '36.  
John Nesmith.  
Henry J. Baxter, '36, '38.  
Jefferson Bancroft.

**WARD 3.**

Thomas Hopkinson, '38, President.  
Jacob Robbins.  
John G. Locke.

**WARD 4.**

Benjamin Walker, \*'36, '38.  
Samuel Horn.  
Stephen Carleton.  
Stephen Mansur, '36.

**WARD 5.**

Tappan Wentworth, '36, '37.  
Lewis McIntire, died Feb., 1840.  
Benjamin Wilde, '38.  
Garret J. Bradt, '38.

**WARD 6.**

Thomas L. Randlett, '38.  
Joseph S. Holt.  
John L. Fitts.  
Daniel Knapp.

**ALBERT LOCKE, Clerk.**

**1840.****MAYOR:****ELISHA HUNTINGTON, † '37, † '38, † '39.****ALDERMEN:**

Jonathan Tyler, '36, '39.  
 John R. Adams.  
 Joseph Bedlow.

Harlin Pillsbury, '39.  
 Seth Ames, \*'36, \*'37.  
 Stephen Mansur, '36, '39.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39.  
 Sylvanus Adams.  
 Henry Patch.  
 R. M. Hutchinson.

**WARD 2.**

Jefferson Bancroft, '39.  
 John Nesmith, '39.  
 Joseph G. Kittredge, \*'37.  
 Josiah Osgood, '37.

**WARD 3.**

Pelham W. Warren, President.  
 Abner W. Buttrick.  
 Asa Hall.  
 Samuel Burbank.

**WARD 4.**

Ferdinand Rodliff.  
 Ethan Burnap.  
 Edward F. Watson.  
 B. Walker, \*'36, '38, '39, died Sept.

**WARD 5.**

Tappan Wentworth, '36, '37, '39.  
 Samuel W. Brown.  
 John J. Crane.  
 George Dane.

**WARD 6.**

Daniel Knapp, '39.  
 George L. Fitts, '39.  
 Joseph Battles.  
 Joshua Converse.

**ALBERT LOCKE, Clerk, died October. JOHN G. LOCKE, elected October.****1841.****MAYOR:****ELISHA HUNTINGTON, † '37, † '38, † '39, † '40.****ALDERMEN:**

Seth Chellis, \*'37, '38.  
 Jefferson Bancroft, '39, '40.  
 Cyril French, '36.

George H. Carleton, \*'38, \*'39.  
 John R. Adams, \*'40.  
 John Aiken, \*'37.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

Henry Patch, '40.  
 George Bragdon.  
 John W. Holland.  
 Arnold Welch.

**WARD 2.**

William Fiske, '37, '38.  
 Erasmus D. Leavitt.  
 Jonathan White.  
 Nathaniel Wilson.

**WARD 3.**

Samuel Burbank, '40.  
 Nathaniel Critchett.  
 Royal Southwick.  
 Edward Winslow.

**WARD 4.**

Ethan Burnap, '40.  
 William Livingston.  
 John Morrison.  
 Edward F. Watson, '40.

**WARD 5.**

Tappan Wentworth, '36, '37, '39, '40, Pres  
 Samuel W. Brown, '40.  
 John J. Crane, '40.  
 Phineas Whiting.

**WARD 6.**

Francis H. Bowers.  
 Isaac H. Cooper.  
 William Potter.  
 John Smith.

**JOHN G. LOCKE, Clerk.**

**1842.****MAYOR:****NATHANIEL WRIGHT.****ALDERMEN:**

Nathaniel Thurston.  
 Jefferson Bancroft, '39, '40, '41.  
 Cyril French, '36, \*'41.

William Livingston, '41.  
 Ithamar A. Beard.  
 John W. Graves.

THOMAS ORDWAY, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Jeremiah P. Jewett.  
 John Hadley.  
 James Townsend.  
 Edward J. Payne.

**WARD 2**

John Nesmith, '39, '40.  
 Erasmus D. Leavit, '41.  
 Joseph W. Mansur, President.  
 James Hopkins.

**WARD 3.**

Nathaniel Critchett, '41.  
 Ira Spalding.  
 John Mead.  
 Asa W. Willoughby.

**WARD 4.**

John Morrison, '41.  
 William Carlton.  
 Oliver March.  
 Josiah B. French, '36.

**WARD 5.**

James Patterson.  
 Isaac Appleton.  
 Josiah Seavey.  
 Roswell Douglass.

**WARD 6.**

James Russell, '36, '37.  
 Jonathan Kendall.  
 Varnum A. Shed.  
 Isaac N. Fitts.

JOHN G. LOCKE, Clerk.

**1843.****MAYOR:****NATHANIEL WRIGHT, † '42.****ALDERMEN:**

Harlin Pillsbury, '39, \*'40, res'd June.  
 Henry C. Johnson.  
 Cyril French, '36 \*'41, \*'42.

S. Spalding, '36, res'd in June.  
 Joseph Griffin.  
 Charles L. Tilden, \*'38, '39.

THOMAS ORDWAY, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Daniel Bixby.  
 Edward J. Payne, '42.  
 Hugh Commiskey.  
 Walter Wright, '37, '38, '39.

**WARD 2.**

Henry J. Baxter, '36, '38, '39.  
 John P. Simonds.  
 Pliny Lawton.  
 Ben Osgood.

**WARD 3.**

John Mead, '42.  
 Willard Brown.  
 Ira Spalding, '42.  
 Benjamin J. Gerrish.

**WARD 4.**

Otis Allen.  
 Alfred Gilman.  
 Oliver March, '42, President.  
 William Carlton, '42.

**WARD 5.**

James Patterson, '42.  
 David Bradt.  
 John L. Tripp.  
 Benjamin F. Holden.

**WARD 6.**

John B. McAlvin.  
 Cyrus Battles.  
 Sewall G. Mack.  
 Charles F. Mitchell.

JOHN G. LOCKE, Clerk.

**1844.****MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41.

**ALDERMEN:**

Henry Smith.  
 Selwin Bancroft,  
 O. M. Whipple, \*'36, \*'38, \*'39.

Edward F. Watson, '40, '41.  
 Joseph Griffin, \*'43.  
 John Wright.

THOMAS ORDWAY, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39, '40.  
 Gilman N. Nichols.  
 Hugh Cummiskey, '43.  
 David Healey.

**WARD 2.**

John P. Simonds, '43.  
 Ben Osgood, '43.  
 Amos Merriam.  
 John Clark, †'36, \*'39, President.

**WARD 3.**

Charles B. Coburn.  
 George Choate.  
 Isaac Scripture.  
 William C. Gray.

**WARD 4.**

Asa Wetherbee.  
 Abner W. Buttrick, '40.  
 Horatio G. F. Corliss.  
 Charles H. Wilder, '37.

**WARD 5.**

John L. Tripp, '43.  
 David Bradt, '43.  
 John Wright.  
 Nathaniel Wright, Jr.

**WARD 6.**

Sewall G. Mack, '43.  
 James Russell, '36, '37, '42.  
 Jonathan Kendall, '42.  
 Gilman Gale.

JOHN G. LOCKE, Clerk.

**1845.****MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44.

**ALDERMEN:**

Henry Smith, \*'44.  
 Selwin Bancroft, \*'44.  
 O. M. Whipple, \*'36, \*'38, \*'39, \*'44.

Edward F. Watson, '40, '41, '44.  
 John C. Dalton.  
 Daniel Knapp, '39.

THOMAS ORDWAY, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39.  
 Danforth P. Brigham.  
 Jonathan Adams.  
 Willard C. Welch.

**WARD 2.**

John P. Simonds, '43, '44.  
 Daniel Balch.  
 William Brown.  
 Daniel S. Richardson, President.

**WARD 3.**

Isaac Scripture, '44.  
 William C. Gray, '44.  
 George Choate, '44.  
 Hapgood Wright.

**WARD 4.**

Abner W. Buttrick, '40 '44.  
 Asa Wetherbee, '44.  
 Charles H. Wilder, '37, '44.  
 Josiah Sawtell.

**WARD 5.**

Nathaniel Wright, Jr., '44.  
 Amos Hyde.  
 Edward Sherman.  
 James Fenno.

**WARD 6.**

Gilman Gale, '44.  
 John B. McAlvin, '43.  
 Samuel Fay, Jr.  
 Lorenzo P. Wright.

JOHN G. LOCKE, Clerk.

**1846.****MAYOR:****JEFFERSON BANCROFT, '39, '40, \*'41, \*'42.****ALDERMEN:**

Henry Smith, \*'44, \*'45.  
 Selwin Bancroft, \*'44, \*'45.  
 William C. Gray, '44, '45.  
 Joseph Butterfield.

John C. Dalton, '45.  
 D. Knapp, '39, \*'45, resigned in July  
 Isaac Corper, '41, elected in August.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39, '45.  
 Danforth P. Brigham, '45.  
 Willard C. Welch, '45.  
 Thomas S. Hutchinson.

**WARD 2.**

Daniel Balch, '45.  
 William Brown, 45  
 Daniel S. Richardson, ‡ '45, President.  
 Zadock Rogers.

**WARD 3.**

Hapgood Wright, '45.  
 Isaac Farrington.  
 Joel Powers.  
 Franklin Mead.

**WARD 4.**

Josiah Sawtell, '45.  
 Solon Stevens.  
 David J. Moody.  
 William Fletcher.

**WARD 5.**

Amos Hyde, '45.  
 Horatio G. F. Corliss, '44.  
 Jonathan Bowers, '36.  
 Charles M. Short.

**WARD 6.**

Lorenzo P. Wright, '45.  
 John L. Fitts, '39, '40.  
 Lewis Packard.  
 Columbus J. Hubbard.

**JOHN G. LOCKE, Clerk.****1847.****MAYOR:****JEFFERSON BANCROFT, '39, '40, \*'41, \*'42, † '46.****ALDERMEN:**

George Bragdon.  
 Joseph Butterfield, \*'46.  
 Linus Child.  
 James Fenno, '45.

Elisha Huntington, ‡ '37, ‡ '38, † '39, † '40,  
 † '41, † '44, † '45.  
 Sewall G. Mack, '43, '44.  
 Stephen Mansur, '36, '39, \*'40.  
 Josiah Sawtell, '45, '46.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

William Conihe.  
 James C. Crombie.  
 David S. Bachelder,  
 Jesse Huse.

**WARD 2.**

Samuel W. Brown, '40, '41.  
 Hannibal Powers.  
 William Newman.  
 Otis L. Allen.

**WARD 3.**

Joel Powers, '46.  
 Franklin Mead, '46.  
 Isaac Farrington, '46.  
 Samuel G. Davis.

**WARD 4.**

Joel Adams, President.  
 Horatio Fletcher.  
 Solon Stevens, '46.  
 Stephen A. Coburn.

**WARD 5.**

Ignatius Tyler.  
 Edward C. Johnson.  
 Elihu Gates.  
 Charles M. Short, '46.

**WARD 6.**

Thomas Wentworth.  
 Isaac N. Parker.  
 John R. Southwick.  
 Isaiah Morse.

**JOHN G. LOCKE, Clerk.**



**1848.****MAYOR:****JEFFERSON BANCROFT**, '39, '40, \*'41, \*'42, †'46, †'47.**ALDERMEN:**

David Dana, '36, '38.

Erastus Douglass, '36, '38.

Jacob Graves, resigned in June.

William Newman, '47.

Gilman N. Nichols, '39, '45, '46.

Daniel S. Richardson, †'45, †'46.

Josiah Sawtell, '45, '46, \*'47.

O. M. Whipple, \*'36, \*'38, \*'39, \*'45.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Conihe, '47.

James C. Crombie, '47.

Jesse Huse, '47.

Gerry Wilson.

**WARD 2.**

Otis L. Allen, '47.

William H. Flagg.

John Nesmith, '39, '40, '42.

Hannibal Powers, '47.

**WARD 3.**

Alfred Gilman, '43.

Thomas Hopkinson, '38, '39, President.

Ransom Reed.

Nathaniel Critchett, '41, '42.

**WARD 4.**

John Avery.

Otis Allen, '43.

Abiel Rolfe.

Horace Howard, '36, '38.

**WARD 5.**

Ignatius Tyler, '47.

Elihu Gates, '47.

Edward C. Johnson, '47.

Charles M. Short, '46, '47.

**WARD 6.**

Thomas Wentworth, '47.

Isaac N. Parker, '47.

Jeremiah M. Currier.

Horace Parmenter.

**JOHN G. LOCKE**, Clerk.**1849.****MAYOR:****JOSIAH B. FRENCH**, '36, '42.**ALDERMEN:**

James B. Francis.

Cyril French, '36, \*'41, \*'42, \*'43.

James H. B. Ayer.

Daniel D. Crombie.

Daniel Carter.

George Brownell, '36, '37, \*'38.

Artemas L. Brooks.

Joseph Bedlow, \*'40.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Jesse Huse, '47, '48, resigned in February.

William A. Richardson, elected in March.

Gerry Wilson, '48.

John W. Smith.

Alfred S. Saunders.

**WARD 2.**

William H. Flagg, '48.

Ivers Taylor.

Isaac S. Morse, resigned.

Ambrose Lawrence.

**WARD 3.**

Alfred Gilman, '43, '48.

Elisha Davis.

James Dinsmoor.

Andrew C. Wheelock.

**WARD 4.**

Nathaniel B. Favor.

Caleb Crosby.

Ezekiel Wright.

Waldo A. Fisher.

**WARD 5.**

Maynard Bragg.

Joshua Decatur.

Abram T. Melvin.

W. W. Morse.

**WARD 6.**

William Lamson, Jr.

Jeremiah M. Currier, '48.

George S. Wright.

John Aiken, \*'37, \*'41, President.

**GEORGE A. BUTTERFELD**, Clerk.

**1850.****MAYOR:****JOSIAH B. FRENCH, '36, '42, † '49.****ALDERMEN:**

James H. B. Ayer, \*'49.  
 Joseph Bedlow, \*'40, \*'49.  
 Daniel D. Crombie, \*'49.  
 James B. Francis, \*'49.

Philip Hardy.  
 John Mixer, '36, '38.  
 Josiah G. Peabody.  
 James Townsend, '42.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

John W. Smith, '49.  
 Daniel R. Kimball.  
 James Watson.  
 Jonathan Smothers.

**WARD 2.**

Ivers Taylor, '49, President.  
 George Gardner.  
 Samuel Lawrence, 2d.  
 Samuel J. Varney.

**WARD 3.**

Jonathan Page.  
 John Tripp.  
 Fordyce Coburn.  
 Joshua Merrill.

**WARD 4.**

Abner W. Buttrick, '40, '44, '45.  
 Caleb Crosby, '49.  
 Benjamin Goddard.  
 Nathaniel B. Favor, '49.

**WARD 5.**

George P. Elliot.  
 William Fiske, '37, '38, '41.  
 George W. Worthen.  
 Maynard Bragg, '49.

**WARD 6.**

Albert Mallard.  
 Stephen P. Sargent.  
 George S. Wright, '49.  
 Wm. Lampson, Jr., '49, resigned in May

**GEO. A. BUTTERFIELD, Clerk, res'd May. WM. LAMSON, JR., elected May.****1851.****MAYOR:****JAMES H. B. AYER, \*'49, \*'50.****ALDERMEN:**

William Fiske, '37, '38, '41, '50.  
 Ambrose Lawrence, '49.  
 James Townsend, '42, \*'50.  
 Philip Hardy, \*'50.

William North, '37.  
 Abiel Rolfe, '48.  
 Lucius A. Cutler.  
 Joshua Converse, 40.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

James Watson, '50.  
 Jonathan Smothers, '50.  
 Charles B. Coburn, '44.  
 Stephen Moar.

**WARD 2.**

Linus Child, \*'47.  
 George Gardner, '50, President.  
 Samuel J. Varney, '50.  
 Zachariah B. Caverly.

**WARD 3.**

Fordyce Coburn, '50.  
 William Twichell.  
 Darius C. Brown.  
 Benjamin C. Sargeant.

**WARD 4.**

Benjamin Goddard, '50.  
 Richard Dennis.  
 Holland Streeter.  
 Solomon D. Emerson.

**WARD 5.**

George P. Elliot, '50.  
 Edward Fifield.  
 John N. Ford.  
 Theodore H. Sweetser.

**WARD 6.**

George W. Worthen, '50.  
 George W. Jones, died in September.  
 Stephen P. Sargent, '50.  
 Albert Mallard, '50.

**WILLIAM LAMSON, JR., Clerk,**

**1852.****MAYOR:****ELISHA HUNTINGTON**, †'37, †'38, †'39, †'40, †'41, †'44, †'45, \*'47.**ALDERMEN:**

Joseph Bedlow, \*'40, \*'49, \*'50.

Joseph M. Bullens.

Samuel Burbank, '40, '41.

Joseph B. V. Coburn.

Wm. Fiske, '37, '38, '41, '50, \*'51.

William North, '37, \*'51.

Alpha Stevens.

Samuel J. Varney, '50, '51.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Rufus Rogers.

John C. Smith.

Jeremiah Clark.

Paul Hill.

**WARD 2.**

Paul Perkins.

Milton Bonney.

William Hovey.

Zachariah B. Caverly, '51.

**WARD 3.**

Darius C. Brown, '51.

William Twichell, '51.

Benjamin C. Sargeant, '51, President.

Michael B. Caswell.

**WARD 4.**

Holland Streeter, '51.

Elbridge Livingston.

Abram French.

Willard Minot.

**WARD 5.**

Edward Fifield, '51.

Phineas Whiting, '41.

George W. Patterson.

Jonathan Kendall, '42, '44.

**WARD 6.**

Leonard W. Jaquith.

Seth Pooler.

Caleb G. Weaver.

William C. Parker.

**WILLIAM LAMSON, JR.**, Clerk.**1853.****MAYOR:****SEWALL G. MACK**, '43, '44, \*'47.**ALDERMEN:****Elisha Huntington**, †'37, †'38, †'39, †'40, †'41, †'44, †'45, \*'47, †'52.

Samuel K. Hutchinson.

Stephen Mansur, '36, '39, \*'40, \*'47.

Joseph B. V. Coburn, \*'52.

Ira Spalding, '42, '43.

Joseph M. Bullens, \*'52.

Alpha Stevens, \*'52.

Joseph White.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Rufus Rogers, '52.

John C. Smith, '52.

Marcus A. Thomas.

James Cook, '36.

**WARD 2.**

Paul Perkins, '52.

Milton Bonney, '52.

George G. Bumpus.

George W. Stanley.

**WARD 3.**

Michael B. Caswell, '52.

Calvin Philbrick.

Leonard Brown.

Henry H. Wilder.

**WARD 4.**

Abram French, '52.

Henry C. Howe.

Joseph S. Grush.

Samuel K. Pickering.

**WARD 5.**

George W. Patterson, '52.

William A. Richardson, '49, President.

Patrick Conlan.

Jonathan Bowers.

**WARD 6.**

Caleb G. Weaver, '52.

William C. Parker, '52.

George F. Woods.

C. F. Blanchard.

**WILLIAM LAMSON, JR.**, Clerk.

**1854.****MAYOR:****SEWALL G. MACK, '43, '44, \*'47, †'53.****ALDERMEN:**

Elisha Huntington, †'37, †'38, †'39, †'40, †'41, †'44, †'45, \*'47, †'52, \*'53.  
 J. B. V. Coburn, \*'52, \*'53, res'd in Jan.  
 Samuel K. Hutchinson, \*'53.  
 Ira Spalding, '42, '43, \*'53.

Joseph White, \*'53.  
 Horatio Fletcher, '47.  
 C. F. Blanchard, '53.  
 Charles Sperry.

**WILLIAM LAMSON, JR. City Clerk.****COMMON COUNCIL:****WARD 1.**

John C. Smith, '52, '53.  
 Paul Hill, '52.  
 Marcus A. Thomas, '53.  
 Thomas Lennon.

**WARD 2.**

George W. Stanley, '53.  
 William H. Gage.  
 Amos A. Taylor.  
 William H. Bradley.

**WARD 3.**

Calvin Philbrick, '53.  
 Leonard Brown, '53, declined.  
 Darius C. Brown, '51, '52, elected.  
 Henry H. Wilder, '53.  
 Peter O. C. Frawley.

**WARD 4.**

Henry C. Howe, '53.  
 Joseph S. Grush, '53.  
 Samuel K. Pickering, '53.  
 Hubbard Wilson.

**WARD 5.**

Wm. A. Richardson, '49, †'53, President.  
 Jonathan Bowers, '53.  
 Patrick Conlan, '53.  
 John C. Woodward.

**WARD 6.**

George F. Woods, '53.  
 Charles S. Eastman.  
 Levi H. Straw.  
 William P. Webster.

**LEONARD BROWN, Clerk.****1855.****MAYOR:****AMBROSE LAWRENCE, '49, '51.****ALDERMEN:**

Wm. Fiske, '37, '38, '41, '50, \*'51, \*'52.  
 Artemas L. Brooks, \*'49.  
 Daniel Woodward.  
 Lorenzo G. Howe.

Andrew T. Nute.  
 Abner Frost.  
 William S. Johnson.  
 Shadrach R. Brackett.

**WILLIAM LAMSON, JR., City Clerk.****COMMON COUNCIL:****WARD 1.**

Maynard Bragg, '49, '50.  
 Aaron B. Young.  
 Augustus B. Roby.  
 George L. Harris.

**WARD 2.**

William G. Morse.  
 George K. Paul.  
 Mark H. Cook.  
 Joseph A. Patten.

**WARD 3.**

Alfred Gilman, '43, '48, '49, President.  
 Daniel Hurd.  
 Theodore Warren.  
 Stephen K. Fielding.

**WARD 4.**

Joshua W. Daniels.  
 John Bennett.  
 Alanson Folsom.  
 Francis H. Nourse.

**WARD 5.**

John C. Woodward, '54.  
 Stephen Bartlett.  
 Jonathan Johnson.  
 Oliver P. Rand.

**WARD 6.**

Levi H. Straw, '54.  
 William T. Whitten.  
 Lucien P. Stacy.  
 James M. Moore.

**LEONARD BROWN, Clerk.**



**1856.****MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, \*'47,  
†'52, \*'53, \*'54.

**ALDERMEN:**

Edward Tuck.	Charles H. Wilder, '37, '44, '45.
Samuel Burbank, '40, '41, *'52.	O. J. Conant, resigned in March.
Charles B. Coburn, '44.	James H. Rand.
William P. Webster, '54.	Jonathan Johnson, elected in June.
Hapgood, Wright, '45, '46.	

WILLIAM LAMSON, JR., City Clerk.

**COMMON COUNCIL:****WARD 1.**

Enos O. Kingsley.  
Abiel Pevey.  
David M. Collins.  
Marshall E. Thompson.

**WARD 2.**

Isaac Hinckley.  
Seth Gage.  
Peter Flanders, Jr.  
Leonard F. Jewell.

**WARD 3.**

David Rogers.  
Benj. C. Sargeant, '51, †'52, President.  
Henry H. Carroll.  
Peter Powers.

**WARD 4.**

Francis H. Nourse, '55.  
Alden B. Buttrick.  
Holland Streeter, '51, '52.  
James Sands.

**WARD 5.**

Frederick Holton.  
Isaac Place.  
Albert Wheeler.  
Abiel Rolfe, '48, \*'51.

**WARD 6.**

Eliphalet Hills.  
Jonathan P. Folsom.  
James K. Fellows, '37.  
John K. Chase.

JAMES J. MAGUIRE, Clerk.

**1857.****MAYOR:**

STEPHEN MANSUR, '36, '39, \*'40, \*'47, \*'53.

**ALDERMEN:**

Andrew T. Nute, *'55.	John B. Tuttle.
John C. Woodward, '54, '55.	Francis H. Nourse, '55, '56.
Jonathan Smothers, '50, '51.	Jonathan Johnson, '55, *'56.
Samuel W. Stickney.	John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., City Clerk.

**COMMON COUNCIL:****WARD 1.**

Abiel Pevey.  
Stephen T. Stanley.  
Charles A. Welch.  
George F. Scribner.

**WARD 2.**

William G. Morse, '55.  
William D. Vinall.  
Temple Tebbetts.  
James M. Howe.

**WARD 3.**

Benjamin C. Sargeant, '51, †'52, †'56.  
David Rogers, '56.  
Henry H. Carroll, '56.  
Nathan Allen.

**WARD 4.**

Caleb Crosby, '49, '50.  
John F. Howe.  
John C. Jepson.  
Alanson Nichols.

**WARD 5.**

Frederick Holton, '56, President.  
William H. Wiggin.  
William Goodale.  
Charles Hubbard.

**WARD 6.**

Erastus Boyden.  
Jonathan Kimball.  
Robert J. Garrett.  
William Nichols.

HENRY A. LORD, Clerk.



**1858.****MAYOR:**

**ELISHA HUNTINGTON**, † '37, ‡ '38, † '39, † '40, † '41, † '44, † '45, \* '47,  
† '52, \* '53, \* '54, † '56.

**ALDERMEN:**

Sewall G. Mack, '43, '44, \* '47, † '53, † '54. Joseph M. Dodge, '37.  
Samuel W. Stickney, \* '57. Harvey Silver.  
Abiel Pevey, '56, '57. Albert Wheeler, '56.  
Jeremiah P. Jewett, 42. Edwin A. Alger.

**JOHN H. McALVIN**, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Charles Wilkins.  
John M. Maynard.  
John E. Webb.  
William Barnard.

**WARD 2.**

Edward Tuck, \* '56.  
William P. Webster, '54, \* '56.  
Andrew Blood.  
William F. Salmon.

**WARD 3.**

Benjamin C. Sargeant, '51, ‡ '52, ‡ '56,  
'57, President.  
Hanover Dickey.  
Joseph A. Brabrook.  
Benjamin S. Butterworth.

**WARD 4.**

Enoch P. Young.  
Zephaniah Goward.  
Jesse Blake.  
John F. Howe, '57.

**WARD 5.**

Willard Dudley.  
Samuel T. Manahan.  
Isaac Page.  
John Avery, 2d.

**WARD 6.**

William Nichols, '57.  
Alpha B. Farr, resigned in January.  
Leonard Brown, '53, '54, elected in Feb.  
Erastus Boyden, '57.  
James H. Rand, \* '56, resigned in May.  
Eben'r Burgess, elected in June.

**GEORGE GARDNER**, Clerk.

**1859.****MAYOR:**

**JAMES COOK**, '36, '53.

**ALDERMEN:**

Lorenzo G. Howe, \* '55. John F. Howe, '57, '58.  
Samuel J. Varney, '50, 51, \* '52. Joshua Converse, '40, \* '51, res'd in April.  
Paul Hill, '52, '54. J. P. Folsom, '56, resigned in April.  
Ambrose Lawrence, '49, '51, † '55, re- Edward Tuck, \* '56, '58, elected in May.  
signed in April. Samuel T. Manahan, '58, elected in May.  
Darius C. Brown, '51, '52. Jonathan Ladd, elected in May.

**JOHN H. McALVIN**, City Clerk.

**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58.  
Charles Wilkins, '58.  
William Barnard, '58.  
William D. Blanchard.

**WARD 2.**

W. P. Webster, '54, \* '56, '58, President.  
William F. Salmon, '58.  
James M. Howe, '57.  
David Nichols.

**WARD 3.**

George Hobson.  
Asahel D. Puffer.  
John Willoughby.  
Benjamin S. Butterworth, '58.

**WARD 4.**

Caleb Crosby, '49, '50, '57.  
Jesse Blake, '58.  
George W. Partridge.  
George W. Young.

**WARD 5.**

Horatio G. F. Corliss, '44, '46.  
Luther B. Morse.  
Josiah G. Peabody, \* '50.  
William Goodale, '57.

**WARD 6.**

Charles A. Stott.  
Levi Sprague.  
Ebenezer Burgess, '58.  
Leonard Brown, '53, '54, '58.

**GEORGE GARDNER**, Clerk.

**1860.****MAYOR:****BENJAMIN C. SARGEANT**, '51, † '52, † '56, '57, † '58.**ALDERMEN:**

Edward F. Watson, '40, '41, \*'44, \*'45.

Lorenzo G. Howe, \*'55, \*'59.

James Watson, '50, '51.

William G. Morse, '55, '57.

Henry H. Wilder, '53, '54.

Abner Frost, \*'55.

Samuel T. Manahan, '58, \*'59.

William S. Gardner.

**JOHN H. McALVIN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Benjamin S. Ireson.

Enoch Quimby.

John P. Slocum.

Amos H. Foster.

**WARD 2.**

Henry P. Clough.

Alfred S. Saunders, '49.

Wm. F. Salmon, '58, '59, President.

Joseph L. Sargent.

**WARD 3.**

George Hobson, '59.

Josiah B. Fielding.

Henry P. Perkins.

Hocum Hosford.

**WARD 4.**

George W. Partridge, '59.

George W. Young, '59.

Morrill M. Bohonan.

Caleb Crosby, '49, '50, '57, '59.

**WARD 5.**

Josiah G. Peabody, \*'50, '59.

Sullivan L. Ward.

George F. Morey.

William H. Lamson.

**WARD 6.**

William Nichols, '57, '58.

Samuel T. Lancaster.

Charles A. Stott, '59.

Foster Nowell.

**GEORGE GARDNER**, Clerk.**1861.****MAYOR:****BENJAMIN C. SARGEANT**, '51, † '52, † '56, '57, † '58, † '60.**ALDERMEN:**

Samuel T. Manahan, '58, \*'59, \*'60.

Jonathan P. Folsom, '56, \*'59.

James Watson, '50, '51, \*'60.

William G. Morse, '55, '57, \*'60.

Hocum Hosford, '60.

Aldis L. Waite.

David Whitney, declined acceptance.

Sager Ashworth, elected in May.

William S. Gardner, \*'60.

**JOHN H. McALVIN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Frank E. Jewett.

M. Gilbert Perkins.

Jacob Baron.

William D. Blanchard, '59.

**WARD 2.**

Alfred S. Saunders, '49, '60.

Joseph L. Sargent, '60.

Henry P. Clough, '60.

Henry S. Orange.

**WARD 3.**

William L. North, President.

George W. Norris.

Henry P. Perkins, '60.

James G. Morrison.

**WARD 4.**

Joseph Cater.

Joseph B. Keyes.

Morrill M. Bohonan, '60.

Abel M. Ayer.

**WARD 5.**

Sullivan L. Ward, '60.

Samuel Beck.

William H. Parker.

George F. Morey, '60.

**WARD 6.**

Samuel T. Lancaster, '60.

Foster, Nowell, '60.

Elon A. Sanborn.

George E. Dana.

**GEORGE GARDNER**, Clerk.

**1862.****MAYOR:****HOCUM HOSFORD, '60, \*'61.****ALDERMEN:**

Mertoun C. Bryant.  
 Edwin A. Alger, \*'58.  
 James B. Francis, \*'49, \*'50.  
 William A. Burke.

Isaac F. Scripture.  
 Aldis L. Waite, \*'61.  
 Albert Wheeler, '56, \*'58.  
 Jona. P. Folsom, '56, \*'59, \*'61.

**JOHN H. McALVIN, City Clerk.****COMMON COUNCIL:****WARD 1**

Amos D. Wright.  
 Frank E. Jewett, '61.  
 Horatio G. Burgess.  
 Charles F. Hard.

**WARD 2.**

Benedict O. Carpenter.  
 William T. McNeill.  
 Lorenzo G. Howe, \*'55, \*'58, \*'60.  
 Henry S. Orange, '61.

**WARD 3.**

George W. Norris, '61.  
 Edmund D. Fletcher.  
 Everett W. French.  
 John Quinn.

**WARD 4.**

Joseph B. Keyes, 61.  
 George Runels.  
 John Pettingell.  
 Hubbard Willson, '54.

**WARD 5.**

Rollin C. Downs.  
 Albert Mallard, '50, '51.  
 Edward Fifield, '51, '52.  
 Cleveland J. Cheney.

**WARD 6.**

George F. Richardson, President  
 Albion J. Dudley.  
 Elon A. Sanborn, '61.  
 Frederick Frye.

**GEORGE GARDNER, Clerk.****1863.****MAYOR:****HOCUM HOSFORD, '60, \*'61, † '62.****ALDERMEN:**

James B. Francis, \*'49, \*'50, \*'62.  
 Edwin A. Alger, \*'58, \*'62.  
 Abiel Pevey, '56, '57, \*'58.  
 William A. Burke, \*'62.

Isaac F. Scripture, \*'62.  
 Otis Allen, '43, '48.  
 Albert Wheeler, '56, \*'58, \*'62.  
 William Nichols, '57, '58, '60.

**JOHN H. McALVIN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Charles F. Hard, '62.  
 Amos D. Wright, '62.  
 John Cosgrove.  
 William A. Wright.

**WARD 2.**

George F. Sawtell.  
 Henry S. Orange, '61, '62.  
 Hugh McEvoy.  
 Nathaniel Stearns.

**WARD 3.**

Everett W. French, '62.  
 Fordyce Coburn, '50, '51.  
 Edmund D. Fletcher, '62.  
 John Quinn, 62.

**WARD 4.**

Atwell F. Wright.  
 Josiah Gates.  
 William Stafford.  
 John McCann.

**WARD 5.**

James C. Ayer.  
 Charles W. Saunders.  
 Cyrus H. Latham.  
 John E. Downs.

**WARD 6.**

George F. Richardson, ‡ '62, President.  
 Albion J. Dudley, '62.  
 Benedict O. Carpenter, '62.  
 Frederick Frye, '62.

**GEORGE GARDNER, Clerk.**

**1864.****MAYOR:****HOCUM HOSFORD**, '60, \* '61, † '62, † '63.**ALDERMEN:**

William S. Southworth.

James B. Francis, \* '49, \* '50, \* '62, \* '63.

Dana B. Gove.

William T. McNeill, '62.

George W. Norris, '61, '62.

George Runels, '62.

Cyrus H. Latham, '63.

George F. Richardson, † '62, † '63.

**JOHN H. McALVIN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Alden B. Watson.

Lewis L. Perrin.

Frederick S. Tukey.

John Cosgrove, '63.

**WARD 2.**

George Ripley, President.

Andrew F. Jewett.

Artemas S. Young.

Hoyt W. Hilton.

**WARD 3.**

Samuel N. Wood.

Charles W. Dodge.

Joseph S. Pollard.

James G. Morrison, '61.

**WARD 4.**

Atwell F. Wright, '63.

Daniel Churchill.

William W. Sherman.

Francis Jewett.

**WARD 5.**

John E. Downs, '63.

Thomas G. Gerrish, resigned June 14.

Charles Hubbard, '57.

Cleveland J. Cheney, '62.

**WARD 6.**

Levi Sprague, '59.

Tobias L. P. Lamson.

Addison Putnam.

Albion J. Dudley, '62, '63.

**GEORGE GARDNER**, Clerk.**1865.****MAYOR:****JOSIAH G. PEABODY**, \* '50, '59, '60.**ALDERMEN:**

Ew'd F. Watson, '40, '41, \* '44, \* '45, \* '60.

George W. Norris, '61, '62, \* '64.

Dana B. Gove, \* '64.

William T. McNeill, '62, \* '64.

Henry H. Wilder, '53, '54, \* '60.

Josiah Gates, '63.

Cyrus H. Lathan, '63, \* '64.

William Brown, '45, '46.

**JOHN H. McALVIN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Alden B. Watson, '64.

Lewis L. Perrin, '64.

George N. Osgood.

John R. Southwick, '47.

**WARD 2.**

George Ripley, † '64, President.

Andrew F. Jewett, '64.

Julian V. Keyes.

Chester W. Rugg.

**WARD 3.**

Joseph S. Pollard, '64.

Charles W. Dodge, '64.

Edward C. Rice.

Frederick T. North.

**WARD 4.**

Francis Jewett, '64.

Benjamin Walker.

Benjamin L. Googins.

John Pearson.

**WARD 5.**

Charles Hubbard, '57, '64.

James Kent.

Simeon D. Osterhoudt.

James Foster.

**WARD 6.**

Tobias L. P. Lamson, '64.

Luke C. Dodge.

Gustavus A. Gerry.

James M. Moore, '55.

**GEORGE GARDNER**, Clerk.



**1866.****MAYOR:****JOSIAH G. PEABODY**, \*'50, '59, '60, † '65.**ALDERMEN:**

Samuel A. Brown.

Albert B. Plimpton.

John R. Southwick, '47, '65.

Joseph L. Sargent, '60, '61.

Charles W. Dodge, '64, '65.

Josiah Gates, '63, \*'65.

Henry M. Hooke.

Albion J. Dudley, '62, '63, '64.

**JOHN H. McALVIN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

William A. Hodge.

William A. Wright, '63.

Jacob Baron, '61.

Rollin C. Downs, '62.

**WARD 2.**

Andrew F. Jewett, '64, '65.

George H. Whitmore.

Julian V. Keyes, '65.

Chester W. Rugg, '65.

**WARD 3.**

Edward C. Rice, '65.

Frederick T. North, '65.

James N. Pinkham.

Oliver W. Smith.

**WARD 4.**

Benjamin L. Googins, '65.

Alfred Scott.

Thomas F. Burgess.

Benjamin Walker, '65.

**WARD 5.**

Robert H. Butcher.

John T. Lee.

George L. Huntoon.

Jonathau Johnson, '55, \*'56, \*'57.

**WARD 6.**

Gustavus A. Gerry, '65, President.

Luke C. Dodge, '65.

Charles A. Kimball.

Alfred H. Chase.

**GEORGE GARDNER**, Clerk.**1867.****MAYOR:****GEORGE F. RICHARDSON**, † '62, † '63, \*'64.**ALDERMEN:**

Charles B. Coburn, '44, '51, \*'56.

Hocum Hosford, '60, \*'61, † '62, † '63, † '64,

John R. Southwick, '47, '65, \*'66.

Joseph L. Sargent, '60, '61, \*'66.

Edward C. Rice, '65, '66.

Abner W. Buttrick, '40, '44, '45, '50;  
died June 29, '67.

Wm. E. Livingston, elected Sept. 9, '67.

William H. Parker, '61.

Albion J. Dudley, '62, '63, '64, \*'66.

**JOHN H. McALVIN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Shepard.

Calvin Sawtell.

Foster Wilson.

M. Gilbert Perkins, '61.

**WARD 2.**

Gustavus A. Gerry, '65, † '66, President.

Ruel J. Walker.

William Dobbins.

Silas Tyler, Jr.

**WARD 3.**

Jona. P. Folsom, '56, \*'59, \*'61, \*'62.

Frederick T. North, '65, '66.

Samuel D. Prescott.

Nathan M. Wright.

**WARD 4.**

John B. Hunt.

John Q. A. Hubbard.

Alfred Scott, '66.

Thomas F. Burgess, '66.

**WARD 5.**

George L. Huntoon, '66.

George S. Cheney.

James Foster, '65.

John T. Lee, '66.

**WARD 6.**

Alfred H. Chase, '66.

James Lawton.

John N. Pierce, Jr.

Foster Nowell, '60, '61, res'd May 14, '67.

William Kittredge, elected Sept. 9, '67.

**GEORGE GARDNER**, Clerk.



**1868.****MAYOR:****GEORGE F. RICHARDSON**, † '62, † '63, \*'64, † '67.**ALDERMEN:**

Charles B. Coburn, '44, '51, \*'56, \*'67. Edward C. Rice, '65, '66, \*'67.  
 Francis Jewett, '64, '65. William E. Livingston, \*'67.  
 John M. Pevey, resigned in July. Frederic Frye, '62, '63.  
 Charles L. Hildreth, elected in September. Albion J. Dudley, '62, '63, '64, \*'66, \*'67.  
 Silas Tyier, Jr., '67.

**JOHN H. MCALVIN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Calvin Sawtell, '67.  
 John Shepard, '67.  
 John F. Merrill.  
 Frederic T. Greenhalge.

**WARD 2.**

Francis D. Munn.  
 Joseph A. Patten, '55.  
 Ruel J. Walker, '67.  
 Henry S. Orange, '61, '62, '63.

**WARD 3.**

George W. Badger.  
 Samuel D. Prescott, '67.  
 William Walker.  
 Albert A. Haggett.

**WARD 4.**

William H. Anderson.  
 John Q. A. Hubbard, '67.  
 Charles T. Crane.  
 John B. Hunt, '67.

**WARD 5.**

Edwin Lamson.  
 George S. Cheney, '67.  
 William Kelley.  
 Ethan N. Spencer.

**WARD 6.**

John N. Pierce, Jr., '67.  
 James Lawton, '67.  
 Francis Brown.  
 Alfred H. Chase, '66, '67, President.

**GEORGE GARDNER**, Clerk.**1869.****MAYOR:****JONATHAN P. FOLSOM**, '56, \*'59, \*'61, \*'62, '67.**ALDERMEN:**

Francis Jewett, '64, '65, \*'68. Hapgood Wright, '45, '46, \*'56.  
 Henry H. Wilder, '53, '54, \*'60, '65. John Q. A. Hubbard, '67, '68.  
 Charles L. Hildreth, \*'68. George S. Cheney, '67, '68.  
 Cyrus H. Latham, '63, \*'64, \*'65. Charles A. Stott, '59, '60.

**JOHN H. MCALVIN**, City Clerk. Resigned March 15, 1869.**SAMUEL A. MCPHETRES**, City Clerk. Elected March 15, 1869.**COMMON COUNCIL:****WARD 1.**

Frederic T. Greenhalge, '68.  
 John H. Durgin, Jr.  
 Patrick Keyes.  
 Benjamin Patch.

**WARD 2.**

Joseph A. Patten, '55, '68.  
 Phineas Jones.  
 Francis D. Munn, '68.  
 Amos Sanborn.

**WARD 3.**

George W. Badger, '68.  
 Albert A. Haggett, '68.  
 William Walker, '68.  
 George E. Pinkham.

**WARD 4.**

William H. Anderson, '68, President.  
 Simeon G. Lyford.  
 Henry P. Carter.  
 Epaphras A. Hill.

**WARD 5.**

William Kelley, '68.  
 Willard A. Brown.  
 William O. Fiske.  
 Edwin Lamson, '68.

**WARD 6.**

Francis Brown, '68.  
 Alpha B. Farr, '58.  
 Lucian P. Stacy, '55.  
 William Kittredge, '67.

**GEORGE GARDNER**, Clerk.

**1870.****MAYOR:****JONATHAN P. FOLSOM**, '56, \*'59, \*'61, \*'62, '67, †'69.**ALDERMEN:**

Edward F. Sherman.

Frank F. Battles.

Charles L. Hildreth, \*'68, \*'69.

Amos B. French.

Hapgood Wright, '45, '46, \*'56, \*'69.

John Q. A. Hubbard, '67, '68, \*'69.

Addison Putnam, '64.

Charles A. Stott, '59, '60, \*'69.

**SAMUEL A. McPHETRES**, City Clerk.**COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69.

Benjamin Patch, '69.

Patrick Keyes, '69.

Samuel G. Ladd.

**WARD 2.**

Phineas Jones, '69.

John L. Moulton.

Patrick Cummiskey.

David G. Skillings.

**WARD 3.**

Albert A. Haggett, '68, '69, President.

Henry P. Perkins, '60, '61.

Hocum Hosford, '60, \*'61, †'62, †'63,

†'64, \*'67, declined.

Matthew Donovan.

John L. Meadowcroft, elected Jan. 24.

**GEORGE GARDNER**, Clerk.**WARD 4.**

Epaphras A. Hill, '69.

Henry P. Carter, '69.

Simeon G. Lyford, '69.

Michael Corbett.

**WARD 5.**

William O. Fiske, '69.

Willard A. Brown, '69.

James D. Hartwell.

Jeremiah Crowley.

**WARD 6.**

Alpha B. Farr, '58, '69.

William Kittredge, '67, '69.

Lucian P. Stacy, '53, '69.

John Stott.

**1871.****MAYOR:****EDWARD F. SHERMAN**, \*'70.**ALDERMEN:**

Frank F. Battles, \*'70.

William F. Salmon, '58, '59, †'60.

John W. Smith, '49, '50.

Amos B. French, \*'70.

Albert A. Haggett, '68, '69, †'70.

Henry C. Howe, '53, '54.

Frederick Ayer.

Addison Putnam, '64, \*'70.

**SAMUEL A. McPHETRES**, City Clerk.**COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69, '70.

Samuel G. Ladd, '70.

Francis N. J. Haviland.

Joel Knapp.

**WARD 2.**

William Dobbins, '67.

John L. Moulton, '70.

Patrick Cummiskey, '70.

Amos A. Blanchard.

**WARD 3.**

Henry P. Perkins, '60, '61, '70, President.

John L. Meadowcroft, '70.

Horace Ela.

Julius C. Jockow.

**WARD 4.**

Benjamin Walker, '65, '66.

Michael Corbett, '70.

Francis H. Chandler.

Charles T. Goddard.

**WARD 5.**

Jeremiah Crowley, '70.

Crawford Burnham.

Henry C. Church.

Patrick Lynch.

**WARD 6.**

Leonard Brown, '53, '54, '58, '59.

John Stott, '70.

Abel T. Atherton.

Nathaniel C. Sanborn.

**GEORGE GARDNER**, Clerk.

**1872.****MAYOR:****JOSIAH G. PEABODY, \***'50, '59, '60, †'65, †'66.**ALDERMEN:**

Henry C. Howe, '53, '54, \*'71.

Alexander G. Cunnock.

Benjamin Patch, '69, '70.

Gustavus A. Gerry, '65, †'66, †'67.

Frederick T. North, '65, '66, '67.

Benjamin Walker, '65, '66, '71.

William Kelley, '68, '69.

Alpha B. Farr, '58, '69, '70.

**SAMUEL A. MCPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59.

Alonzo F. Caswell.

Southwell Farrington.

True P. Jordan.

**WARD 2.**

Leonard Brown, '53, '54, '58, '59, '71.

Amos A. Blanchard, '71.

Joseph S. Brown.

Earl A. Thissell.

**WARD 3.**

Henry P. Perkins, '60, '61, '70, †'71, Pres.

Horace Ela, '71.

Julius C. Jockow, '71.

Charles F. Tilton.

**WARD 4.**

Nathaniel P. Favor.

Nathan W. Frye.

Henry A. Lord.

Alonzo L. Russell.

**WARD 5.**

Crawford Burnham, '71.

Charles F. Belden.

Luther J. Eames.

William Shepard.

**WARD 6.**

Abel T. Atherton, '71.

Nathaniel C. Sanborn, '71.

Samuel M. Chase.

Julian Talbot.

**GEORGE GARDNER, Clerk.****1873.****MAYOR:****FRANCIS JEWETT, '64, '65, \*'68, \*'69.****ALDERMEN:**

Jonathan P. Folsom, '56, \*'59, \*'61, \*'62, '67, †'69, †'70.

George Runels, '62, \*'64.

Edward Tuck, \*'56, '58, \*'59, declined.

Isaac Farrington, '46, '47, declined.

William Dobbins, '67, '71, elected Jan. 14.

Charles A. F. Swan, elected January 14.

Jacob H. Sawyer.

Jeremiah Crowley, '70, '71.

Alpha B. Farr, '58, '69, '70, \*'72.

George Stevens.

**SAMUEL A. MCPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59, '72.

Alonzo F. Caswell, '72.

Frank Brady.

Stephen J. Smiley.

**WARD 2.**

Joseph S. Brown, '72.

Earl A. Thissell, '72.

Daniel Stickney.

Edward P. Woods.

**WARD 3.**

Albert A. Haggett, '68, '69, †'70, \*'71, Pres.

Charles F. Tilton, '72, resigned March 1.

William Bass.

James Owens.

James A. Loughlin, elected April 8.

**WARD 4.**

Atwell F. Wright, '63, '64.

Nathaniel P. Favor, '72.

Nathan W. Frye, '72.

Henry A. Lord, '72.

**WARD 5.**

Robert H. Butcher, '66.

Charles F. Belden, '72.

Jared P. Maxfield.

George Smith.

**WARD 6.**

Nathaniel C. Sanborn, '71, '72.

Samuel M. Chase, '72.

George W. S. Hurd.

Artemas S. Tyler.

**GEORGE GARDNER, Clerk.**

**1874.****MAYOR:****FRANCIS JEWETT**, '64, '65, \*'68, \*'69, †'73.**ALDERMEN:**

Jeremiah Crowley, '70, '71, \*'73.  
 Benjamin Walker, '65, '66, '71, \*'72.  
 Alonzo F. Caswell, '72, '73.  
 Joseph S. Brown, '72, '73.

Jonathan Kendall, '42, '44, '52.  
 George L. Huntoon, '66, '67.  
 Nathaniel C. Sanborn, '71, '72, '73.  
 George Stevens, \*'73.

**SAMUEL A. McPHETRES**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57.  
 Frank Brady, '73.  
 Stephen J. Smiley, '73.  
 Charles H. Harvey.

**WARD 2.**

Daniel Stickney, '73.  
 Edward P. Woods, '73.  
 Charles J. Eastman.  
 Edward E. Reed.

**WARD 3.**

Julius C. Jockow, '71, '72.  
 James Owens, '73.  
 James A. Loughlin, '73.  
 George W. Tilton.

**WARD 4.**

Charles T. Goddard, '71.  
 Nathan W. Frye, '72, '73, President.  
 Jacob H. Sawyer, \*'73.  
 Julian A. Richardson.

**WARD 5.**

Jared P. Maxfield, '73.  
 John B. Lyford,  
 Samuel P. Marin.  
 John Scott.

**WARD 6.**

George W. S. Hurd, '73.  
 Joel A. Abbott.  
 Thomas Carolin.  
 Jason Fuller.

**GEORGE GARDNER**, Clerk, died May 29.  
**DAVID CHASE**, Clerk, elected June 4.

**1875.****MAYOR:****FRANCIS JEWETT**, '64, '65, \*'68, \*'69, †'73, †'74.**ALDERMEN:**

Benjamin Walker, '65, '66, '71, \*'72, \*'74.  
 Jacob Rogers.  
 John A. Goodwin.  
 Joseph S. Brown, '72, '73, \*'74.

Hapgood Wright, '45, '46, \*'56, \*'69.  
 James Owens, '73, '74.  
 Alden B. Richardson.  
 Samuel A. Chase.

**SAMUEL A. McPHETRES**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57, '74.  
 Charles H. Harvey, '74.  
 John F. Howard.  
 John W. Welch.

**WARD 2.**

Earl A. Thissell, '72, '73.  
 Edward E. Reed, '74.  
 William A. Read.  
 Leavitt R. J. Varnum.

**WARD 3.**

Albert A. Haggett, '68, '69, †'70, \*'71.  
 George W. Tilton, '74. [†'73, Pres.  
 Charles Cowley.  
 Thomas R. Garity.

**WARD 4.**

Josiah Butler.  
 Francis Carl.  
 Edward P. Dennis.  
 Edward Stockman.

**WARD 5.**

James D. Hartwell, '70.  
 John B. Lyford, '74.  
 Orford R. Blood.  
 Charles W. Sleeper.

**WARD 6.**

Joel A. Abbott, '74.  
 Thomas Carolin, '74.  
 Jason Fuller, '74.  
 Albert D. Wright.

**DAVID CHASE**, Clerk.



**1876.****MAYOR:****CHARLES A. STOTT, '59, '60, \* '69, \* '70.****ALDERMEN:**

Jacob Rogers, *'75.	Henry A. Hildreth.
John A. Goodwin, *'75. [† '73, ‡ '75.	George E. Stanley.
Albert A. Haggett, '68, '69, ‡ '70, *'71,	Francis Carll, '75.
Charles F. Belden, '72, '73.	William H. Wiggin, '57.

**SAMUEL A. McPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

John W. Welch, '75.  
 Lewis Stiles.  
 Daniel W. Manning.  
 David M. Collins, '56, declined.  
 John F. Howard, '75, elected January 11.

**WARD 2.**

Leavitt R. J. Varnum, '75.  
 Charles E. Hallowell.  
 Charles Callahan.  
 William A. Read, '75.

**WARD 3.**

Charles Cowley, '75.  
 Charles H. Kimball.  
 Charles Runels.  
 James Howard, died after election.  
 William H. Grady, elected January 11.

**WARD 4.**

Edward Stockman, '75, resigned May 23.  
 Gardner W. King.  
 Stephen H. Jones.  
 Charles D. Starbird.  
 James W. Bennett, elected June 22.

**WARD 5.**

Orford R. Blood '75.  
 John F. Kimball, President from May 23.  
 Charles H. Hanson.  
 M. Gilbert Perkins, '61, '67.

**WARD 6.**

Edwin Sanborn.  
 Benjamin C. Dean, Pres., resig'd May 23.  
 Charles H. Walker.  
 John J. Pickman.  
 Willis Farrington, elected June 22.

**DAVID CHASE, Clerk.****1877.****MAYOR:****CHARLES A. STOTT, '59, '60, \* '69, \* '70, † '76.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74.	Orford R. Blood, '75, '76, seat vacated.
Horace R. Barker.	Stephen B. Puffer, declined el. January 2.
George E. Stanley, *'76.	Robert Park.
Charles H. Kimball, '76.	George E. Pinkham, '69.
George P. Walker.	

**SAMUEL A. McPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

Daniel W. Manning, '76.  
 Lewis Stiles, '76.  
 John Courtney.  
 Frank Brady, '73, '74, resig'd March 27.  
 Jared P. Maxfield, '73, '74, elected May 8.

**WARD 2.**

Charles E. Hallowell, '76.  
 Francis D. Munn, '68, '69.  
 Charles H. Robbins.  
 Oliver M. Harding.

**WARD 3.**

William H. Grady, '76.  
 Patrick Lynch.  
 Simon Kelly.  
 George E. Davis.

**WARD 4.**

Gardner W. King, '76.  
 James W. Bennett, '76.  
 Irving K. Goodale.  
 Orlnado Blodgett.

**WARD 5.**

John F. Kimball, ‡ '76.  
 Charles H. Hanson '76.  
 Peter S. Coburn.  
 Robert Goulding.

**WARD 6.**

Edwin Sanborn, '76.  
 John J. Pickman, '76.  
 Charles H. Walker, '76.  
 Augustus E. Spaulding, dec. January 10  
 George S. Cushing, elected February 6.

**DAVID CHASE. Clerk.**



**1878.****MAYOR:****JOHN A. G. RICHARDSON.****ALDERMEN:**

Stephen B. Puffer, \*'77.  
 Robert Park, \*'77.  
 Horace R. Barker, \*'77.  
 George F. Scribner, '57.

George E. Scripture.  
 Joseph S. Pollard, '64, '65, [\*'77.  
 Jeremiah Crowley, '70, '71, \*'73, \*'74,  
 Nathaniel C. Sanborn, '71, '72, '73, \*'74.

**SAMUEL A. McPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

John Courtney, '77.  
 John J. Mealey.  
 Joseph M. Ambrose.  
 Charles H. Harvey, '74, '75.

**WARD 2.**

Oramel A. Brigham.  
 Edward M. Tucke.  
 William W. Clark.  
 Albert W. Monty.

**WARD 3.**

Simon Kelly, '77.  
 Edward Cawley.  
 Henry P. Morris.  
 Samuel D. Butterworth.

**WARD 4.**

Irving K. Goodale, '77.  
 Orlando Blodgett, '77.  
 Robert G. Bartlett.  
 Stephen H. Jones, '76.

**WARD 5.**

Robert Goulding, '77.  
 Peter S. Coburn, '77.  
 John F. Kimball, ‡ '76, ‡ '77, President.  
 Enos O. Kingsley, '56.

**WARD 6.**

George S. Cushing, '77.  
 Eli W. Hoyt.  
 Luke B. Taylor.  
 Miles F. Brennan, to January 22.  
 Thomas Nesmith, from January 22.

**DAVID CHASE, Clerk.****1879.****MAYOR:****JOHN A. G. RICHARDSON, † '78.****ALDERMEN:**

Horace R. Barker, \*'77, \*'78.  
 Charles A. R. Dimon.  
 Joseph S. Pollard, '64, '65, \*'78.  
 Charles S. Lilley.

George E. Scripture, \*'78.  
 George F. Scribner, '57, \*'78.  
 Charles F. Howe.  
 Robert Goulding, '77, '78.

**SAMUEL A. McPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

Joseph M. Ambrose, '78.  
 John O'Donnell.  
 James Kelly.  
 Richard J. Noonan.

**WARD 2.**

Albert W. Monty, '78.  
 Charles H. Richardson.  
 William K. Chase, resigned November 25.  
 Edwin A. Robinson.  
 Edward M. Tucke, '78, elected Dec. 9.

**WARD 3.**

Edward Cawley, '78.  
 Henry P. Morris, '78.  
 William T. Benson.  
 Patrick A. Rogers.

**WARD 4.**

Robert G. Bartlett, '78.  
 Fred Woodies.  
 Charles F. Varnum.  
 Charles E. Farrington.

**WARD 5.**

Albert W. Burnham.  
 Ambrose L. Ready.  
 Joseph M. Wilson.  
 Edward B. Peirce, President.

**WARD 6.**

Eli W. Hoyt, '78.  
 Luke B. Taylor, '78.  
 Major A. Shaw.  
 Miles F. Brennan, '78.

**DAVID CHASE, Clerk.**

**1880.****MAYOR:****FREDERIC T. GREENHALGE, '68, '69.****ALDERMEN:**

James D. Hartwell, '70, '75.  
 Atwill F. Wright, '63, '64.  
 Charles H. Richardson.  
 Edwin Lamson, '68, '69.

Isaac F. Scripture, \*'62, \*'63.  
 Robert Wood.  
 Charles H. Coburn.  
 James C. Abbott.

**SAMUEL A. McPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

James Kelly, '79.  
 Richard J. Noonan, '79.  
 Thomas J. Flynn.  
 Lawrence Cummings.

**WARD 2.**

Edwin A. Robinson, '79.  
 Wilbur L. Bates.  
 Samuel W. Foster.  
 Earl A. Thissell, '72, '73, '75, President.

**WARD 3.**

Peter H. Donohoe.  
 William T. Benson, '79.  
 Patrick A. Rogers, '79.  
 Frank Wood.

**WARD 4.**

Fred Woodies, '79.  
 Charles F. Varnum, '79.  
 Charles E. Farrington, '79.  
 Charles D. Starbird, '76.

**WARD 5.**

Joseph M. Wilson, '79.  
 Ambrose L. Ready, '79.  
 Samuel Hosmer.  
 Edward B. Peirce, † '79.

**WARD 6.**

Benjamin F. Freeman.  
 J. Tyler Stevens.  
 Charles C. Hutchinson.  
 Henry C. Cooper.

**DAVID CHASE, Clerk.****1881.****MAYOR:****FREDERIC T. GREENHALGE, '68, '69, † '80.****ALDERMEN:**

Charles H. Richardson, \*'80.  
 Isaac F. Scripture, \*'62, \*'63, \*'80.  
 Robert Wood, \*'80.  
 Ambrose L. Ready, '79, '80.

Levi Sprague, '59, '64.  
 Julius A. Stiles.  
 Samuel D. Butterworth, '78.  
 Thomas R. Garity, '75.

**SAMUEL A. McPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

Thomas J. Flynn, '80.  
 Lawrence Cummings, '80.  
 Robert J. Thomas.  
 Jeremiah J. Hayes.

**WARD 2.**

Zachariah D. Hall.  
 James M. Howe, '57, '59.  
 Hubert M. Potter.  
 Moses Gibson.

**WARD 3.**

Frank Wood, '80.  
 Peter H. Donohoe, '80.  
 John E. Maguire.  
 D. Moody Prescott.

**WARD 4.**

Julius C. Johnson.  
 Stephen C. Davis.  
 Edward Garner.  
 William N. Osgood.

**WARD 5.**

Atkinson C. Varnum.  
 Samuel Hosmer, '80.  
 Samuel P. Marin, '74.  
 Albert W. Burnham, '79.

**WARD 6.**

Charles C. Hutchinson, '80.  
 Albert G. Thompson.  
 Thomas Nesmith, '78.  
 Lawrence J. Smith.

**DAVID CHASE, Clerk.**

**1882.****MAYOR:****GEORGE RUNELS, '62, \*'64.****ALDERMEN:**

Thomas R. Garity, '75, \*'81, Chairman. D. Moody Prescott, '81.  
 \* Charles W. Sleeper. George S. Cushing, '77, '78.  
 George B. Smith. John F. Phillips.  
 William A. Wright, '63, '66. † John Welch.  
 David Whitaker.

‡ SAMUEL A. MCPHETRES, City Clerk. § DAVID W. O'BRIEN, City Clerk.

\* Resigned, May 23; special election to fill vacancy, June 20.

† Elected June 20, to fill vacancy. ‡ Died Sept. 29, 1882 § Elected Oct. 4, 1882.

**COMMON COUNCIL:****WARD 1.**

Robert J. Thomas, '81.  
 Jeremiah J. Hayes, '81.  
 Dennis J. Crowley.  
 John A. Walsh.

**WARD 2.**

Zachariah D. Hall, '81.  
 James M. Howe, '57, '59, '81.  
 Moses Gibson, '81.  
 James F. Puffer, Jr.

**WARD 3.**

Frank Wood, '80, '81.  
 John E. Maguire, '81.  
 John J. Mead.  
 James Grady.

**WARD 4.**

Julius C. Johnson, '81.  
 Stephen C. Davis, '81.  
 Edward Garner.  
 William N. Osgood, '81, President.

**WARD 5.**

Atkinson C. Varnum, '81.  
 Albert W. Burnham, '79, '81.  
 Artemas B. Woodworth.  
 Horace B. Barnes.

**WARD 6.**

Albert G. Thompson, '81.  
 Lawrence J. Smith, '81.  
 Thaddens S. Cobb.  
 Miles J. Fletcher.

DAVID CHASE, Clerk.

**1883.****MAYOR:****JOHN J. DONOVAN.****ALDERMEN:**

John F. Phillips, \*'82, Chairman. D. Moody Prescott, '81, \*'82.  
 George B. Smith, \*'82. George W. Fifield.  
 Robert J. Thomas, '81, '82. John Welch, \*'82.  
 David Whitaker, \*'82. Miles J. Fletcher, '82.

DAVID W. O'BRIEN, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Dennis J. Crowley, '82.  
 John J. Hogan.  
 James H. Cahill.  
 Daniel Murphy.

**WARD 2.**

Samuel Lawrence, '50.  
 Joseph S. Brown, '72, '73, \*'74, \*'75.  
 Albert W. Monty, '78, '79.  
 John F. Thissell.

**WARD 3.**

James Grady, '82.  
 John J. Mead, '82.  
 Patrick J. Smith.  
 Frank J. Donohue.

**WARD 4.**

James G. Elliott.  
 Solomon K. Dexter.  
 Alonzo L. Russell, '72.  
 Geo. A. Bennett.

**WARD 5.**

Edward B. Pierce, ‡ '79, '80.  
 Artemas B. Woodworth, '82.  
 John P. Mahoney.  
 George L. Ashworth.

**WARD 6.**

Lawrence J. Smith, '81, '82.  
 Thaddens S. Cobb, '82.  
 J. Frank Page.  
 Michael F. Clark.

DAVID CHASE, Clerk.

**1884.****MAYOR:****JOHN J. DONOVAN, † '33.****ALDERMEN:**

Robert J. Thomas, '81, '82, *'83, Chair'n.	Jeremiah Crowley, '70, '71, * '73, *'74,
Miles J. Fletcher, '82, *'83.	*'77, *'78.
George W. Fifield, '83.	Peter H. Donohoe, '80, '81.
Thaddeus S. Cobb, '82, '83.	Freeman B. Shedd.
Edward B. Quinn.	

**DAVID W. O'BRIEN, City Clerk.****COMMON COUNCIL:****WARD 1.**

John J. Hogan, '83, President.  
 James H. Cahill, '83.  
 Daniel Murphy, '83.  
 James H. Morrison.

**WARD 2.**

Joseph S. Brown, '72, '73, \*'74, \*'75, '83.  
 Albert W. Monty, '78, '79, '83.  
 Earl A. Thissell, '72, '73, '75, † '80.  
 John R. Pike.

**WARD 3.**

Patrick J. Smith, '83.  
 Peter J. Brady.  
 Thomas J. Sparks.  
 John Nolan.

**WARD 4.**

James G. Elliott, '83.  
 Solomon K. Dexter, '83.  
 Alonzo L. Russell, '72, '83.  
 George A. Bennett, '83.

**WARD 5.**

Edward B. Peirce, † '79, '80, † '83.  
 George L. Ashworth.  
 Joseph M. Wilson, '79, '80.  
 James S. Hanson.

**WARD 6.**

J. Frank Page, '83.  
 Michael F. Clark, '83.  
 Alfred M. Chadwick.  
 Marcellus H. Fletcher.

**DAVID CHASE, Clerk.****1885.****MAYOR:****EDWARD J. NOYES.****ALDERMEN:**

John F. Phillips, *'82, *'83, Chairman.	James D. Hartwell, '70, '75, *'80.
John F. Howe, '57, '58, *'59.	George F. Penniman.
William D. Brown.	Oliver E. Cushing.
George E. Stanley, *'76, *'77.	James Francis.

**SAMUEL M. CHASE, City Clerk.****COMMON COUNCIL:****WARD 1.**

Patrick H. Plunkett.  
 James H. Morrison, '84.  
 Thomas J. Enright.  
 Henry F. Keyes.

**WARD 2.**

George W. Brothers.  
 Walter M. Sawyer.  
 James R. Fulton.  
 Francis D. Munn, Jr.

**WARD 3.**

Peter J. Brady, '84.  
 Patrick J. Smith, '83, '84.  
 John Nolan, '84.  
 Thomas J. Sparks, '84.

**WARD 4.**

Arnold S. Welch.  
 George A. Roper.  
 William A. Lang.  
 Frank W. Howe.

**WARD 5.**

Wilson W. Carey.  
 James S. Hanson, '84.  
 Henry L. Newhall.  
 Elwyn W. Lovejoy.

**WARD 6.**

Alfred M. Chadwick, '84, President.  
 George R. Richardson.  
 Luke B. Taylor, '78, '79.  
 William H. White.

**DAVID CHASE, Clerk.**



**1886.****MAYOR:****JAMES C. ABBOTT.****ALDERMEN:**

Jeremiah Crowley, '70, '71, \*'73, \*'74, Daniel Wright.  
 \*'77, \*'78, \*'84, Chairman. Samuel D. Butterworth, \*'78, \*'81.  
 John F. Phillips, \*'82, \*'83, \*'85. George F. Penniman, \*'85.  
 Stephen B. Puffer, \*'77, \*'78. James Francis, \*'85.  
 George E. Stanley, \*'76, \*'77, \*'85.

**SAMUEL M. CHASE**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Peter B. Sherlock.  
 Patrick H. Plunkett, '85.  
 Thomas J. Enright, '85.  
 Timothy H. Brennan.

**WARD 2.**

Walter M. Sawyer, '85, President.  
 Charles H. Richardson, '79.  
 James R. Fulton, '85.  
 Francis D. Munn, Jr., '85.

**WARD 3.**

Daniel Cleary.  
 Patrick J. Mahan.  
 Edward D. McVey.  
 Thomas J. Sparks, '84, '85.

**WARD 4.**

Arnold S. Welch, '85.  
 George A. Roper, '85.  
 Frank W. Howe, '85.  
 William A. Lang, '85.

**WARD 5.**

Henry L. Newhall, '85.  
 Elwyn W. Lovejoy, '85.  
 Wilson W. Carey, '85.  
 Roswell M. Boutwell, '85.

**WARD 6.**

Lawrence J. Smith, '81, '82, '83.  
 John E. Drury.  
 Charles H. Hobson.  
 Marcellus H. Fletcher, '84.

**DAVID CHASE**, Clerk.**1887.****MAYOR:****JAMES C. ABBOTT**, † '86.**ALDERMEN:**

Stephen B. Puffer, \*'77, \*'78, \*'86, Chair'n. Peter H. Donohoe, '80, 81, \*'84.  
 Nathan D. Pratt. Miles J. Fletcher, '82, \*'83, \*'84.  
 Francis C. Plunkett. Frederick Frye, '62, '63, \*'68.  
 August Fels. Marcellus H. Fletcher, '84, '86.

**DAVID W. O'BRIEN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Michael J. Garvey.  
 Dennis A. Sullivan.  
 Daniel Murphy, '83, '84.  
 Dennis J. Leary.

**WARD 2.**

Walter M. Sawyer, † '86.  
 Charles H. Richardson, '79, '86.  
 George C. Evans.  
 Horace P. Beals.

**WARD 3.**

George B. McKenna.  
 John Nolan, '84, '85.  
 Daniel Cleary, '86.  
 Patrick J. Smith, '83, '84, '85.

**WARD 4.**

Millard F. Wright.  
 Edmund B. Conant.  
 Jesse H. Shepard.  
 Richard Dobbins.

**WARD 5.**

Roswell M. Boutwell, '86.  
 George W. Brothers, '85.  
 Clarence G. Coburn.  
 James H. Carmichael, President.

**WARD 6.**

Richard B. Allen.  
 John E. Drury, '86.  
 Patrick Conlon.  
 Edward Gallagher.

**WILLIAM J. COUGHLIN**, Clerk.



**1888.****MAYOR:****CHARLES D. PALMER.****ALDERMEN:**

George A. Scribner.  
 George E. Putnam.  
 Charles Runels, '76.  
 Charles E. Carter.  
 Edward D. Holden.

Arthur Staples.  
 Roswell M. Boutwell, '86, '87.  
 Alfred M. Chadwick, '84, †'85, Chairm'n.

**GIRARD P. DADMAN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Dennis A. Sullivan, '87.  
 Dennis J. Leary, '87.  
 Daniel Murphy, '83, '84, '87.  
 Michael J. Garvey, '87.

**WARD 2.**

Frank J. Sherwood.  
 Horace P. Beals, '87.  
 Harry E. Shaw.  
 Pierre A. Brousseau.

**WARD 3.**

John F. Rogers.  
 Owen M. Donohoe.  
 Thomas J. Sparks, '84, '85, '86.  
 \*John F. Roane.  
 †Patrick H. Brosnahan.  
 \*Resigned Aug. 9. Special Election to  
 fill vacancy Sept. 18.  
 †Elected Sept. 18 to fill vacancy.

**WARD 4.**

\*Millard F. Wright, '87.  
 Edmund B. Conant, '87, President.  
 Jesse H. Shepard, '87.  
 Richard Dobbins, '87.  
 †Alonzo G. Walsh.  
 \*Resigned April 24. Special Election to  
 fill vacancy June 5.  
 †Elected June 5 to fill vacancy.

**WARD 5.**

Charles C. Hartwell.  
 Clarence G. Coburn, '87.  
 George W. Brothers, '85.  
 Joseph S. Lapierre.

**WARD 6.**

William E. Westall.  
 Frank Brown.  
 Richard B. Allen, '87.  
 Abbott Lawrence.

**DAVID CHASE, Clerk.****1889.****MAYOR:****CHARLES D. PALMER, †'88.****ALDERMEN:**

George A. Scribner, \*'88.  
 Walter M. Sawyer, '85, †'86, '87.  
 George E. Putnam, \*'88.  
 Edward D. Holden.

Roswell M. Boutwell, '86, '87, \*'88, Ch'n.  
 John H. Fuller.  
 William F. Senter.  
 John E. Drury, '86, '87.

**GIRARD P. DADMAN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Patrick J. Savage.  
 Joseph H. Callahan.  
 Daniel H. Courtney.  
 William J. Johnson.

**WARD 2.**

\*Samuel C. George.  
 Pierre A. Brousseau, '88.  
 Arthur H. Cluer.  
 Frank J. Sherwood, '88.  
 †James Stuart Murphy.  
 \*Res'd June 9. †Ele. July 2, to fill vacancy.

**WARD 3.**

Owen M. Donohoe, '88.  
 Stephen Garrity.  
 Patrick H. Brosnahan, '88.  
 Thomas J. Sparks, '84, '85, '86, '88.

**WARD 4.**

B. Frank Hale.  
 Edwards Cheney.  
 Alonzo G. Walsh, '88.  
 Frank Gray.

**WARD 5.**

Orford R. Blood, '75, '76.  
 Charles C. Hartwell, '88.  
 Henry W. Ladd.  
 Henry J. Draper.

**WARD 6.**

William E. Westall, '88, President.  
 Abbott Lawrence, '88.  
 Albert Crowell.  
 Frank Brown, '88.

**DAVID CHASE, Clerk.**

**1890.****MAYOR:****CHARLES D. PALMER,** '88, † '89.**ALDERMEN:**

Albert D. Carter.  
 Watson A. Dickinson.  
 John E. Drury, '86, '87, \*'89.  
 Edmund D. Fletcher.

John H. Fuller, \*'89, Chairman.  
 Walter M. Sawyer, '85, ‡ '86, '87, \*'89.  
 Samuel E. Snow.  
 Joseph M. Wilson, '79, '80, '84.

**GIRARD P. DADMAN,** City Clerk.**COMMON COUNCIL:****WARD 1.**

Joseph H. Callahan, '89.  
 Daniel H. Courtney, '89.  
 William J. Johnson, '89.  
 Patrick J. Savage, '89.

**WARD 2.**

Newell Abare.  
 Arthur H. Clier, '89.  
 Walter C. Coburn.  
 James Stuart Murphy, '89.

**WARD 3.**

Patrick H. Brosnahan, '88, '89.  
 Robert C. Gallagher.  
 Charles L. Marren.  
 Thomas J. Sparks, '84, '85, '86, '88, '89.

**WARD 4.**

Edwards Cheney, '89.  
 Frank Gray, '89.  
 B. Frank Hale, '89.  
 Alonzo G. Walsh, '88, '89, President.

**WARD 5.**

Orford R. Blood, '75, '76, '89.  
 Herbert M. Jacobs.  
 Henry W. Ladd, '89.  
 Louis P. Turcotte.

**WARD 6.**

Albert Crowell, '89.  
 Daniel D. Driscoll.  
 James Gookin.  
 Edward F. Spalding.

**DAVID CHASE** Clerk.**1891.****MAYOR:****GEORGE W. FIFIELD,** \*'83, \*'84.**ALDERMEN:**

Richard B. Allen, '86, '87.  
 James W. Cassidy.  
 Jeremiah Crowley, '70, '71, \*'73, \*'74, \*'77,  
 \*'78, \*'84, \*'86, Chairman.  
 Watson A. Dickinson, \*'90.

Thomas J. Enright, '85, '86.  
 George H. Frye.  
 Stephen B. Puffer, \*'77, \*'78, \*'86, \*'87.  
 George F. Tilton.

**MICHAEL J. DOWD,** City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Barry.  
 James F. Doherty.  
 John J. Sullivan.  
 Peter F. Garrity.

**WARD 2.**

Newell Abare, '90.  
 Adolphe Benard.  
 Walter C. Coburn, '90.  
 George H. Marston.

**WARD 3.**

Patrick J. Baxter.  
 John J. Gilbride.  
 Charles H. Marren, '90.  
 Thomas J. Sparks, '84, '85, '86, '88, '89,  
 '90, President.

**WARD 4.**

Edwin L. Giles.  
 Fred Horne.  
 Wallace G. Parkin.  
 Eugene C. Wallace.

**WARD 5.**

Herbet M. Jacobs, '90.  
 George D. Kinball.  
 John A. Speirs.  
 Louis P. Turcotte, '90.

**WARD 6.**

James A. Cawley.  
 James J. Dolan.  
 Daniel D. Driscoll, '90.  
 James Gookin, '90.

**DAVID CHASE,** Clerk.

**1892.****MAYOR:****GEORGE W. FIFIELD, \*'83, \*'84, † '91.****ALDERMEN:**

Samuel D. Butterworth, *'78, *'81, *'86.	Stephen J. Johnson.
James W. Cassidy, *'91.	Freeman W. Puffer.
William J. Coughlin.	Frank E. Stowell.
Albert A. Haggett, '68, '69, † '70, *'71, *'76, Chairman.	Charles F. Varnum, '79, '80.

**MICHAEL J. DOWD, City Clerk.****COMMON COUNCIL****WARD 1.**

John Brunette.  
James O'Neill,  
Joseph O'Rourke.  
John J. Sullivan, '91.

**WARD 2.**

Adolphe Benard, '91.  
George H. Marston, '91.  
Frank Scott.  
Hugh A. Thompson.

**WARD 3.**

Patrick J. Baxter, '91.  
John J. Gilbride, '91.  
Thomas J. Sparks, '84, '85, '86, '88, '89, '90, † '91, President.  
William H. Stafford.

**WARD 4.**

Edwin L. Giles, '91.  
Fred Horne, '91.  
Wallace G. Parkin, '91.  
Moses Wyman.

**WARD 5.**

Constant Henotte.  
Patrick H. Kehoe.  
Joseph A. McDonald.  
Charles W. Swan.

**WARD 6.**

William T. Benson, '79, '80.  
James J. Dolan, '91.  
Thomas F. Hoban.  
Michael F. McCarthy.

**DAVID CHASE, Clerk.****1893.****MAYOR:****JOHN J. PICKMAN, '76, '77.****ALDERMEN:**

George R. Choate.	Freeman W. Puffer, *'92.
George C. Evans, '87.	Stephen B. Puffer, *'77, *'78, *'86, *'87, *'91.
Stephen J. Johnson, *'92.	William E. Westall, '88, † '89, Chairman.
Elwyn W. Lovejoy, '85, '86.	
Joseph A. McDonald, '92.	

**MICHAEL J. DOWD, City Clerk.****COMMON COUNCIL:****WARD 1.**

John Brunette, '92.  
Patrick J. O'Brien.  
James O'Neil, '92.  
Fred H. Rourke.

**WARD 2.**

Charles H. Boisvert.  
Frank Scott, '92.  
Hugh A. Thompson, '92.  
George H. Tryder.

**WARD 3.**

Frank Dunlap.  
John J. Grady.  
John Joseph O'Connor.  
William H. Stafford, '92.

**WARD 4.**

George E. Barclay.  
William J. Hills.  
Charles T. Killpartrick.  
Moses Wyman, '92.

**WARD 5.**

Cyrille Constantineau.  
Patrick J. Custy.  
Charles H. Noble.  
James O'Sullivan.

**WARD 6.**

William T. Benson, '79, '80, '92, Pres.  
James J. Dolan, '91, '92.  
Thomas F. Hoban, '92.  
Anthony Robinson.

**FRANK J. SIMONDS, Clerk.**

**1894.****MAYOR:****JOHN J. PICKMAN**, '76, '77, † '93.**ALDERMEN:**

Charles N. Bagley.  
 Watson A. Dickinson, \*'90, \*'91.  
 Frank Dunlap, '93.  
 Coolidge R. Johnson.  
 Stephen J. Johnson, \*'92, \*'93.

Elwyn W. Lovejoy, '85, '86, \*'93, Chair-  
 man.  
 George E. Stanley, \*'76, \*'77, \*'85, \*'86.  
 William E. Westall, '88, † '89, \*'93.

**MICHAEL J. DOWD**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Matthew M. Mansfield.  
 Patrick J. O'Brien, '93.  
 Fred H. Rourke, '93.  
 John J. Ryan.

**WARD 2.**

J. Henry Collins.  
 John G. Gordon.  
 Fred W. Sanborn.  
 George H. Tryder, '93.

**WARD 3.**

Joseph H. Gormley.  
 John J. O'Connell.  
 John Joseph O'Connor, '93.  
 Thomas J. Sparks, '84, '85, '86, '88, '89,  
 '90, † '91, † '92, President.

**WARD 4.**

George E. Barclay, '93.  
 William L. Hills, '93.  
 Charles T. Killpartrick, '93.  
 Luther F. Kittredge.

**WARD 5.**

Patrick J. Custy, '93.  
 Frederick E. Labarge.  
 Charles H. Noble, '93.  
 John Oliver.

**WARD 6.**

William T. Benson, '79, '80, '92, † '93,  
 Died May 21, 1894.  
 William F. Curtin.  
 Charles Riley.  
 Anthony Robinson, '93.  
 Thomas O'Day, Elected July 17, '94.

**FRANK J. SIMONDS**, Clerk.**1895.****MAYOR:****WILLIAM F. COURTNEY.****ALDERMEN:**

Frank B. Dow.  
 Frederic J. Flemings.  
 William L. Hills, '93, '94.  
 Charles E. Howe.

George H. Tryder, '93, '94.  
 Daniel H. Varnum, Chairman.  
 John C. Wilson.  
 Moses Wyman, '92, '93.

**GIRARD P. DADMAN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Barry, '91.  
 Thomas F. Garvey.  
 Hugh Maguire, Jr.,  
 Matthew M. Mansfield.

**WARD 2.**

Edwin S. Eastman.  
 William Hounsell.  
 Willis E. Morse.  
 Fred W. Sanborn, '94.

**WARD 3.**

Patrick F. Delehanty.  
 Joseph H. Gormley, '94.  
 James F. Miskella.  
 Timothy J. Reynolds.

**WARD 4.**

David Dickson.  
 Edward T. Goward.  
 Jonathan G. Hunton.  
 Herbert E. Webster.

**WARD 5.**

Eugene E. Dennison.  
 George W. Hartwell.  
 John Oliver.  
 Francis P. Rivet.

**WARD 6.**

William F. Curtin, '94, President.  
 Thomas O'Day, '94.  
 Charles Riley, '94.  
 John E. Sullivan.

**FRANK J. SIMONDS**, Clerk.



**1896.****MAYOR:****WILLIAM F. COURTNEY, † '95.****ALDERMEN:**

Jeremiah Crowley, '70, '71, \*'73, \*'74, John H. McAlvin.  
 \*'77, \*'78, \*'84, \*'86, Chairman. James A. Pevey.  
 Frank B. Dow, \*'95. George H. Tryder, '93, '94, \*'95.  
 Frederic J. Flemings, \*'95. Edward M. Tucke.  
 Charles E. Howe, \*'95. John C. Wilson, \*'95.

**GIRARD P. DADMAN, City Clerk.****COMMON COUNCIL:****WARD 1.**

William Hounsell, '95, ward 2.  
 Jonathan G. Hunton, '95, ward 4.  
 Homer B. Nay.

**WARD 2.**

William J. Dunn.  
 Hugh Maguire, Jr., '95, ward 1.  
 Dennis J. Pendergast.

**WARD 3.**

David Dickson, '95, ward 4.  
 Frank H. Hallett.  
 Herbert M. Jacobs, '90, '91, ward 5.

**WARD 4.**

James F. Miskella, '95, ward 3.  
 Stephen O'Hare.  
 Timothy J. Reynolds, '95, ward 3.

**WARD 5.**

John P. O'Hare.  
 John E. Sullivan, '95, ward 6.  
 Charles E. Thornton.

**WARD 6.**

William E. Badger.  
 Sidney Drewett.  
 Edwin S. Eastman.

**WARD 7.**

George W. Hartwell, '95, ward 5.  
 Francis P. Rivet, '95, ward 5.  
 Lorenzo E. Smith.

**WARD 8.**

Fred A. George.  
 William H. Penn.  
 Herbert E. Webster, '95, ward 4, Pres't.

**WARD 9.**

Charles A. Eveleth. Henry K. White.  
 Carl G. A. F. W. E. Pihl.

**FRANK N. OWEN, Clerk.****1897.****MAYOR:****WILLIAM F. COURTNEY, † '95, † '96.****ALDERMEN:**

Charles H. Cosgrove. Charles E. Howe, \*'95, \*'96, Chairman.  
 Lucius A. Derby. Abbott Lawrence, '88, '89.  
 Edwin S. Eastman, '95, '96. Edward B. Pierce, †'79, '80, †'83, '84.  
 Edward T. Goward, '95. Fred A. Tuttle.  
 George L. Hooper.

**GIRARD P. DADMAN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Anadore B. Bosca.  
 Clarence W. Dana.  
 Samuel Scott.

**WARD 2.**

William J. Dunn, '96.  
 James Kennedy.  
 Dennis J. Pendergast, '96.

**WARD 3.**

William H. Brown.  
 James Smith.  
 Oliver D. Wilder.

**WARD 4.**

Francis M. Fagan.  
 James F. Miskella, '95, '96.  
 Stephen O'Hare, '96.

**WARD 5.**

George Farley.  
 Michael E. Sullivan.  
 Charles E. Thornton, '96.

**WARD 6.**

John H. Beaulieu.  
 Walter F. Leighton.  
 George H. Taylor.

**WARD 7.**

Clovis Belanger.  
 Lorenzo E. Smith, '96.  
 Lincoln R. Welch.

**WARD 8.**

Arthur W. Lang.  
 Charles F. Libby.  
 William H. Penn, '96, President.

**WARD 9.**

Butler Ames. Louis B. Sykes.  
 Henry K. White, '96.

**FRANK N. OWEN, Clerk.**



**1898.****MAYOR:****JAMES W. BENNETT, '76, '77.****ALDERMEN:**

Charles H. Cosgrove, \*'97.

Lucius A. Derby, \*'97.

Charles A. R. Dimon, \*'79, Chairman.

Edward T. Goward, '95, \*'97.

Guy Holbrook.

Oliver A. Libby.

Edward B. Peirce, †'79, '80, †'83, '84, \*'97.

Francis P. Rivet, '95, '96.

Fred A. Tuttle, \*'97.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Anadore B. Bosca, '97.

Clarence W. Dana, '97.

Charles D. Paige.

**WARD 2.**

Thomas F. Garvey, '95.

James Kennedy, '97.

Frank McMahon.

**WARD 3.**

James Smith, '97.

Burton H. Wiggin.

Oliver D. Wilder, '97.

**WARD 4.**

Francis M. Fagan, '97.

Michael J. Markham.

John J. Roark.

**WARD 5.**

George A. Farley, '97.

William J. McCluskey.

Michael Sullivan, '97.

**WARD 6.**

John H. Beaulieu, '97.

Walter F. Leighton, '97.

George H. Taylor, '97, President.

**WARD 7.**

Alfred J. Howe.

Charles H. Merrill.

Eben B. Stafford.

**WARD 8.**

Arthur W. Lang, '97.

Charles F. Libby, '97.

Anthony D. Mitten.

**WARD 9.**

Walter E. Murkland.

Louis B. Sykes, '97.

William D. Whittet.

FRANK M. DOWLING, Clerk.

**1899.****MAYOR:****JEREMIAH CROWLEY, '70, '71, \*'73, \*'74, \*'77, \*'78, \*'84, \*'86, \*'91, \*'96****ALDERMEN:**

Sam Chapin.

Lucius A. Derby, \*'97, \*'98.

Charles A. R. Dimon, \*'79, \*'98.

Oliver A. Libby, \*'98.

Philip McNulty.

James F. Miskella, '95, '96, '97.

Edward B. Peirce, †'79, '80, †'83, '84, \*'97, \*'98.

George H. Taylor, '97, †'98.

Oliver D. Wilder, '97, '98.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Herbert R. Baker.

Charles D. Paige, '98, President.

Francis E. Saunders.

**WARD 2.**

Patrick H. Barry, '91, '95.

Frank McMahon, '98.

John J. Mullaney.

**WARD 3.**

William H. Brown.

Chas. H. Flanders.

Burton H. Wiggin, '98.

**WARD 4.**

Timothy F. Donohoe.

Michael J. Markham, '98.

John J. Roark, '98.

**WARD 5.**

Frank S. Clark.

John F. Dillon.

John J. O'Brien.

**WARD 6.**

William E. Badger, '96.

George E. Burns.

James F. Walker.

**WARD 7.**

Phillip Desmarais.

Lewis Lebrun.

Eben B. Stafford, '98.

**WARD 8.**

Fred E. Bean.

Ralph B. Lyman.

Anthony D. Mitten, '98.

**WARD 9.**

Henry Hatch.

Walter E. Murkland, '98.

William D. Whittet, '98.

FRANK M. DOWLING, Clerk.

**1900.****MAYOR.**

JEREMIAH CROWLEY, '70, '71, \*'73, \*'74, \*'77, \*'78, \*'84, \*'86, \*'91, \*'96, + '99.

**ALDERMEN.**

William E. Badger, '96, '99.  
 Cyrus Barton,  
 John H. Beaulieu, '97, '98.  
 William H. Brown, '99.  
 James H. Carmichael, + '87.

Edward S. Howe.  
 Charles D. Paige, '98, + '99.  
 George H. Taylor, '97, + '98, \*'99, Chairman.  
 William D. Whittet, '98, '99.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL.****WARD 1.**

Herbert R. Baker, '99.  
 James G. Hill.  
 Francis E. Saunders, '99

**WARD 2.**

Patrick H. Barry, '91, '95, '99.  
 Bernard F. Lee.  
 John J. Mullaney, '99.

**WARD 3.**

Otto Jensen.  
 Ephraim D. Livingston.  
 George McElroy.

**WARD 4.**

James B. Casey.  
 Timothy F. Donohoe, '99.  
 Michael J. Markham, '98, '99.

**WARD 5.**

T. Frank Clark.  
 John F. Dillon, '99.  
 Thomas J. McCaffrey.

**WARD 6.**

Pierre A. Brousseau, '88, '89.  
 George E. Burns, '99.  
 James F. Walker, '99, President.

**WARD 7.**

Alfred J. Howe, '98.  
 Louis Lebrun, '99.  
 Eben B. Stafford, '98, '99.

**WARD 8.**

Fred E. Bean, '99.  
 Anthony D. Mitten, '98, '99.  
 Charles E. Tilton.

**WARD 9.**

George Emsley. Henry Hatch, '99.  
 Daniel N. Pickering.

FRANK M. DOWLING, Clerk.



SEVENTY-FIFTH ANNUAL REPORT  
OF THE  
SCHOOL COMMITTEE  
OF THE  
CITY OF LOWELL, MASS.  
AND THE  
THIRTY-SEVENTH ANNUAL REPORT  
OF THE  
Superintendent of Public Schools,  
1900.



LOWELL, MASS.  
UNION PRINTING CO., 67 MIDDLE ST.  
1901.

## CITY OF LOWELL.

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OFFICE OF THE SCHOOL COMMITTEE,

LOWELL, MASS., Dec. 31, 1900.

At a meeting of the School Committee, held Dec. 31, 1900, the report of the Committee on Reports was presented, accepted, and ordered to be printed, together with the annual report of the Superintendent of Schools for the year 1900.

In accordance with this vote the reports are herewith presented.

A. K. WHITCOMB, Secretary.



ORGANIZATION  
OF THE  
SCHOOL COMMITTEE, 1900.

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WILLARD EVERETT, President.

ARTHUR K. WHITCOMB, Secretary.

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Ward 1—	WILLIAM J. JOHNSON, 326 Merrimack St.	Term expires	1901
“ 2—	CORNELIUS A. DALY, 318 Suffolk St.	“ “	1901
“ 3—	CHARLES L. SWEETSIR, 276 Westford St.	“ “	1900
“ 4—	JAMES E. DONNELLY, 36 Floyd St.	“ “	1901
“ 5—	DENNIS J. MURPHY, 33 Tyler St.	“ “	1900
“ 6—	FRANK K. STEARNS, 256 Lawrence St.	“ “	1900
“ 7—	ANDREW G. SWAPP, 307 Pawtucket St.	“ “	1901
“ 8—	WILLARD EVERETT, 12 Belmont St.	“ “	1900
“ 9—	ALBERT G. THOMPSON, Lowell Post Office.	“ “	1901

### STANDING COMMITTEES.

- ON TEACHERS AND SALARIES.—Messrs. Swapp, Everett, Donnelly.
- ON BOOKS AND SUPPLIES.—Messrs. Stearns, Thompson, Sweetsir, Murphy, Johnson.
- ON EVENING SCHOOLS.—Messrs. Everett, Swapp, Stearns, Thompson, Daly.
- ON HIGH SCHOOL.—Messrs. Thompson, Everett, Swapp, Donnelly, Murphy.
- ON PENMANSHIP AND DRAWING.—Messrs. Sweetsir, Stearns, Johnson.
- ON MUSIC.—Messrs. Stearns, Thompson, Donnelly.
- ON REPORTS AND PRINTING.—Messrs. Murphy, Sweetsir, Johnson.
- ON ACCOUNTS.—Messrs. Johnson, Everett, Daly.
- ON SCHOOL HOUSES AND HYGIENE.—Messrs. Sweetsir, Murphy, Daly.
- ON RULES.—Messrs. Donnelly, Daly, Swapp.

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### ASSIGNMENT OF SCHOOLS.

- MR. JOHNSON.—Edson, Eliot, Kirk Street, Cottage Street.
- MR. DALY.—Green, Worthen Street, Cheever Street, Morrill, Worthen Street Kindergarten.
- MR. SWEETSIR.—Lincoln, Howard Street, Grand Street, Plain Street, Lincoln Kindergarten.
- MR. DONNELLY.—High, Butler, London Street, Weed Street, Agawam Street, Carter Street, Lyon Street, Agawam Street and Chapel Street Kindergartens.
- MR. MURPHY.—High, Charles Street, Central Street, Ames Street, Fayette Street.
- MR. STEARNS.—Varnum, West Sixth Street, Tenth Street, Lakeview Avenue, Billings Street, Varnum Kindergarten.
- MR. SWAPP.—High, Bartlett, Pawtucket, Training, Cross Street, Cabot Street, New Moody Street, Lexington Avenue, Pawtucketville, Training and Bartlett Kindergartens.

MR. EVERETT.—High, Highland, Franklin, Dover Street, Powell Street, Pine Street, Middlesex Village, Franklin, Dover and Pine Street Kindergartens.

MR. THOMPSON.—High, Moody, Pond Street, High Street, Sycamore Street, Moody Kindergarten.

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### ASSIGNMENT OF EVENING SCHOOLS.

MR. EVERETT.—High, Mann.

MR. SWAPP.—Bartlett, Green, Pawtucket.

MR. STEARNS.—Varnum, Aiken Avenue.

MR. THOMPSON.—Edson, Colburn, Manual Training.

MR. DALY.—Butler, Franklin.

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ARTHUR K. WHITCOMB, Superintendent of Public Schools.

Office in City Hall.

OFFICE HOURS.—One hour after the forenoon session of schools, and from 2 to 3 o'clock on Saturday afternoon.

Telephone 566-4.

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School Supply Room.

Open 8 A.M. to 12.30 P.M. and 1 to 5 P.M.

Telephone 549-5.

**TRUANT COMMISSIONERS,**

GEO. F. STURTEVANT, JAMES KELLY, WM. F. THORNTON,  
CAMILLE ROUSSIN.

Office in City Hall, Third Floor.

OFFICE HOURS.—Saturday, 2 to 3 o'clock P.M. Other days 4 to 5 o'clock P.M., except during the summer vacation, when the office will be open from 9 to 10 o'clock A.M

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**REGULAR MEETINGS OF THE SCHOOL COMMITTEE.**

January 29.	February 26.	March 26	April 30.
May 28.	June 25.	July 30.	August 27.
September 24.	October 29.	November 26.	December 31.

ORGANIZATION  
OF THE  
SCHOOL COMMITTEE, 1901.

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WILLARD EVERETT, President.

ARTHUR K. WHITCOMB, Secretary.

---

Ward 1—WILLIAM J. JOHNSON, 326 Merrimack St.	Term expires 1901
“ 2—CORNELIUS A. DALY, 318 Suffolk St.	“ “ 1901
“ 3—CHARLES L. SWEETSIR, 276 Westford St.	“ “ 1902
“ 4—JAMES E. DONNELLY, 36 Floyd St.	“ “ 1901
“ 5—DENNIS J. MURPHY, 33 Tyler St.	“ “ 1902
“ 6—JOSEPH N. MARSTON 159 Middlesex St.	“ “ 1902
“ 7—ANDREW G. SWAPP, 307 Pawtucket St.	“ “ 1901
“ 8—WILLARD EVERETT, 12 Belmont St.	“ “ 1902
“ 9—ALBERT G. THOMPSON, Lowell Post Office.	“ “ 1901



### STANDING COMMITTEES.

- ON TEACHERS AND SALARIES. — Messrs. Swapp, Everett, Donnelly.
- ON BOOKS AND SUPPLIES. — Messrs. Sweetsir, Marston, Murphy, Johnson, Thompson.
- ON EVENING SCHOOLS. — Messrs. Everett, Swapp, Marston, Thompson, Daly.
- ON HIGH SCHOOL. — Messrs. Swapp, Everett, Sweetsir, Donnelly, Murphy.
- ON PENMANSHIP AND DRAWING. — Messrs. Sweetsir, Marston, Johnson.
- ON MUSIC. — Messrs. Marston, Thompson, Donnelly.
- ON REPORTS AND PRINTING. — Messrs. Murphy, Sweetsir, Johnson.
- ON ACCOUNTS. — Messrs. Donnelly, Everett, Daly.
- ON SCHOOL HOUSES AND HYGIENE. — Messrs. Daly, Murphy, Thompson.
- ON RULES. — Messrs. Johnson, Daly, Swapp.
- 

### ASSIGNMENT OF SCHOOLS.

- MR. JOHNSON. — Edson, Eliot, Kirk Street, Cottage Street.
- MR. DALY. — Green, Worthen Street, Cheever Street, Morrill, Worthen Street Kindergarten.
- MR. SWEETSIR. — High, Lincoln, Howard Street, Grand Street, Plain Street, Lincoln Kindergarten.
- MR. DONNELLY. — High, Butler, London Street, Weed Street, Agawam Street, Carter Street, Lyon Street, Agawam Street and Chapel Street Kindertens.
- MR. MURPHY. — High, Charles Street, Central Street, Ames Street, Fayette Street.
- MR. MARSTON. — Varnum, West Sixth Street, Tenth Street, Lakeview Avenue, Billings Street, Varnum Kindergarten
- MR. SWAPP. — High, Bartlett, Pawtucket, Training, Cross Street, Cabot Street, New Moody Street, Lexington Avenue, Pawtucketville, Training and Bartlett Kindertens.

MR. EVERETT. — High, Highland, Franklin, Dover Street, Powell Street, Pine Street, Middlesex Village, Franklin, Dover and Pine Street Kindergartens.

MR. THOMPSON. — Moody, Pond Street, High Street, Sycamore Street, Moody Kindergarten.

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### ASSIGNMENT OF EVENING SCHOOLS.

MR. EVERETT. — High, Mann, Railroad Street.

MR. SWAPP. — Bartlett, Green, Pawtucket.

MR. MARSTON. — Varnum, Aiken Avenue.

MR. THOMPSON. — Edson, Colburn, Manual Training.

MR. DALY — Butler, Franklin.

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ARTHUR K. WHITCOMB, Superintendent of Public Schools.

Office in City Hall.

OFFICE HOURS. — One hour after the forenoon sessions of schools and from 2 to 3 o'clock on Saturday afternoon.

Telephone 566-4.

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School Supply Room.

Open 8 A.M. to 12.30 P.M. and 1 to 5 P.M.

Telephone 549-5.

**TRUANT COMMISSIONERS.**

GEO. F. STURTEVANT, JAMES KELLY, WM. F. THORNTON,  
CAMILLE ROUSSIN.

Office in City Hall, Third Floor.

OFFICE HOURS. — Saturday, 2 to 3 o'clock P.M. Other days 4 to 5 o'clock P.M., except during the summer vacation, when the office will be open from 9 to 10 o'clock A.M.

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**REGULAR MEETINGS OF THE SCHOOL COMMITTEE.**

January 28.	February 25.	March 25.	April 29.
May 27.	June 24.	July 29.	August 26.
September 30	October 28.	November 25.	December 30.

# REPORTS.





## Report of the School Committee.

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GENTLEMEN:

The Committee on Reports herein submits its annual report of the condition of the Lowell Public Schools, together with whatever suggestions and recommendations may have come before it during the year last past.

Great things are claimed for education, and the educational forces of this country are recognized as a mighty power for civilization and the betterment of mankind. Enormous sums of money have been expended, and are annually being expended, in the endowment and maintenance of our great institutions of learning and system of public schools, while the lifetime energy and efforts of thousands of earnest and conscientious men and women are devoted to the work.

The end of all education has been defined as the happiness of the individual. Contentment is

the fruit of a satisfying expenditure of time and effort in securing the necessities and luxuries of this life. Hence, to endeavor successfully in this age of keen competition, to succeed is possible only to those of highly-trained mental and physical capacity, and this training, we believe, is being fast developed in our public schools.

The City of Lowell annually expends large sums of money for the care and maintenance of its public school system, believing, as its citizens undoubtedly must believe, that the preservation of its free institutions depends upon the wisdom and intelligence of its citizens.

#### SCHOOL BOARDS.

When a man accepts the position of a school committeeman, it becomes his duty to make the public good his aim and sole ambition. If members of school boards would do this, they would not become involved in fruitless personal or partisan contests, in which, usually, both sides are wrong. The body should be composed of members whose sole purpose will be the serving of the city's best interest, wholly and apart from the political complexion of the matter in hand. In school matters

everybody concedes that partisan politics should be eliminated in appointing school teachers, selecting text books, determining courses of study, and providing rules for school government. It is the duty of each member to give, and it is his right to receive from each of his associates in return, a full, frank statement of views on every subject of Board action, and he is never justified in determining his own course until all have been heard. A member should never permit himself to caucus with some of his associates, and then, instead of meeting with the Board to hear and be heard, to weigh and consider, meet merely to carry out a cut and dried programme. He should also make it a point to improve every proper opportunity to convey to the public full details of the business affairs of the Board, as well as his own particular school district. A wrong course pursued in these respects handicaps integrity.

We are pleased to note here that in all matters which have come before the present Board, party politics have had no influence; nor, so far as observation goes, have the Board members been affected in their discussions by political considerations.

## TEXT BOOKS.

There are times when conditions demand a change of text books, and it is the duty of the School Board to make such changes when they are actually required. Notwithstanding some criticism of the present Board's action in regard to the change or frequent change of text books, we can safely say, without fear of contradiction, that there have been less changes of text books during the last year than have been made for many past years. The committee on text books has stood for economy from the beginning, changing text books only when a crying necessity demanded. Your Board, through the text book committee, has administered the business affairs wisely and economically, with the end in view of doing only what it honestly believed to be for the best interests of the public schools.

We do not believe in the promiscuous change of text books, and before a text book is introduced into our schools, either as a new study or to supplant an old book, it is incumbent on the members of the Board to satisfy themselves that the new study will be an aid to the pupil's education, or that the book is superior in every

respect, and of greater benefit and assistance to the pupil than the one in use.

In selecting text books boards of education should be controlled by the merits of the book only. The book should be high in moral character and rich in useful knowledge, so arranged and presented that its acquisition gives mental power and practical training for the work of this life.

Because a text book has been in use for years in our school is no excuse for a change to some new book simply because it embodies some new system. Before a text book is changed it should be conclusively shown that the new book is superior to the one to be displaced.

#### SCHOOL HOUSES.

During the last fiscal year there have been no new school houses erected, with the possible exception of the High School Annex. The attendance at some schools has increased so rapidly that additions to the present school buildings will soon be required, particularly in the district known as the Highlands.

The sanitary conditions of the school buildings may be said in general to be good; but in



some of the older buildings many reforms and improvements are sorely needed. While this work comes more directly under the head of the Lands and Buildings Department, which is directly responsible to the City Council, we feel that it works disadvantageously to the proper care and maintenance of the schools. The School Board is elected directly by the people, and is, therefore, directly responsible to the people, hence the Board should be financially independent of the rest of the City Government. It should have direct charge of schools, school houses, teachers, and janitors. The City Council ought to have no authority to determine how much money is to be spent on schools and school houses. The truth is the City Council is not elected to look after the schools, and, therefore, its interest in them is much less than that of the school committee. We do not wish these remarks to apply to the present Lands and Buildings Department particularly, for we firmly believe that this department has done all that a limited appropriation would permit it to do. We simply wish to impress one fact upon the public, and that is, all persons or things directly connected with schools should be under the direct supervision and control of the School Department.

## EVENING SCHOOLS.

The evening school is one of the most practical features of our public school system, and to those who follow intelligently and thoughtfully the development of this branch of educational work, one of the most interesting. The City of Lowell has very generously provided innumerable elementary schools and one large and commodious High School, all of which are under conscientious and faithful teachers, who labor diligently to assist those who are unable to partake of the advantages of our day schools.

The evening schools offer opportunities to those who, in their youth, for one reason or another, were denied the privileges of a good education, and the eagerness with which these opportunities are grasped shows that the privilege is appreciated by a multitude.

The scope of usefulness of our evening schools might well be extended in all grades. There are no fads in our evening educational system, for its success justifies its existence by the results which are accomplished. We, therefore, recommend that next year manual training be introduced into our evening schools and that a commercial department

be opened to equal, if possible, that which we hope to have in the day High School upon the completion of the annex.

#### HIGH SCHOOL.

We believe the Lowell High School is one of the best equipped and well managed in the State, and we believe that the completion of the new annex, with the introduction of the new commercial department, will render this institution second to none, both as regards the facilities and corps of teachers. The manual training department has already taken up its abode in the new building, and is expected to be in excellent running order on or about the first of January, 1901.

With the completion of the High School annex we shall be able to establish in the High School a course which has been demanded by the general public of the City of Lowell for many years. The committee feel that the commercial course, as laid out and arranged, will equip the pupil with all the necessary practical knowledge of commercial detail and commercial work.

Statistics show that even in localities where there are high schools that make a business of preparing for college, less than one per cent. of

the school population attend college. Of our High School graduates not even one in ten, according to President McCracken, ever enter colleges. What becomes of the others? They go out into the world as teachers, clerks, shop-girls, agents, office helpers, etc. Many of them remain idle at home, waiting for something to turn up. We believe the remedy for this will be found in the introduction of the proposed commercial course, conjointly with the manual training. It is a movement in the right direction. The end of all education, as we have said before, is the happiness of the individual. What can tend to this happiness as to offer to the young people of our public schools that kind of education which will not only give them the benefit of trained minds and cultured intellects, but will also enable them to better and more surely earn their daily bread and maintain their position with credit as citizens and members of society.

#### A WORD TO THE PUBLIC.

The public are at all times invited to visit and inspect the public schools, and thereby show their appreciation of the good work that is constantly being done by an excellent corps of

teachers. If the public awaken to the importance of this matter, we do not doubt but that they will agree with us in saying that a pupil who takes advantage of the facilities and opportunities which are offered in the public schools of the City of Lowell, can go forth into this busy life properly equipped to earn his own livelihood.

DENNIS J. MURPHY,

CHAS. L. SWEETSIR, M.D.,

WILLIAM J. JOHNSON.



# REPORT OF THE SUPERINTENDENT OF SCHOOLS.

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OFFICE OF THE SUPERINTENDENT OF SCHOOLS,  
DECEMBER 31, 1900.

GENTLEMEN OF THE SCHOOL COMMITTEE:

In accordance with your rules, I have the honor to submit the following as my report for the year 1900.

## SUMMARY OF STATISTICS.

Value of real and personal property.....	\$71,496,735
Population by census of 1900.....	94,969
Number of polls.....	25,837
Increase for the year.....	955
Number of children between five and fifteen years of age, Sept. 1. 1900.....	14,710
Ward One, 995; Ward Two 1407; Ward Three, 1440; Ward Four, 1629; Ward Five, 1129; Ward Six, 1757; Ward Seven, 3074; Ward Eight, 1742 Ward Nine, 1537	

Number of public schools.....	46
One High, nine Grammar, thirty-three Primary, two Mixed, one Training.	
Number of Kindergartens.....	12
Number of public school buildings.....	52
Number of school rooms in actual use.....	272
High, 28; Grammar, 114; Primary, 113; Mixed, 4; Kindergarten, 13.	
Number of elected teachers employed Dec. 31, 1900	288
High School, ten men, nineteen women,	
Grammar Schools, nine men, one hundred women.	
Primary Schools, one hundred and nine women.	
Training School, seven women.	
Mixed Schools, four women.	
Kindergartens, twenty-four women.	
One supervisor of Kindergartens.	
One teacher of penmanship.	
One teacher of drawing.	
One teacher of music.	
One teacher of sewing.	
One military instructor.	
Number of teachers of Evening Schools, term of 1899-'00.....	134
Whole number enrolled in Evening Schools, term of 1899-'00.....	4,027
Whole number enrolled in day schools.....	12,658
Average number belonging to day schools....	10,623
High, 777; Grammar, 4566; Primary, 4642	
Mixed, 138; Kindergarten, 500.	

## SUPERINTENDENT'S REPORT.

25

Average attendance .....	9,678
High, 741 ; Grammar, 4235 ; Primary, 4183 ; Mixed, 122 ; Kindergartens, 397.	
Average number belonging to each teacher.....	36
High, 29 ; Grammar, 37 ; Primary, 40 ; Mixed, 34 ; Kindergartens, 21.	
Average belonging to each room.....	39
High, 28 ; Grammar, 40 ; Primary, 41 ; Mixed, 34 ; Kindergarten, 38.	
Average per cent. of attendance.....	91
High, 95 ; Grammar, 93 ; Primary, 90 ; Mixed, 88 ; Kindergarten, 79.	
Average cost of each pupil, for tuition only, based on the average number belonging.....	\$18.92
High, \$33.95 ; Grammar, \$18.59 ; Primary and Mixed, \$15.28 ; Kindergartens, \$24.32.	

## RECEIPTS AND EXPENDITURES.

## RECEIPTS.

Appropriated and assessed in 1899.....	\$274,000.00
Transfers.....	1,320.31
Total standing to credit of schools...	<u>275,320.31</u>

## EXPENDITURES.

Paid to teachers of day schools:—

High School.....	\$ 26,377.75
Grammar Schools,—Bartlett School, \$ 9,082.90	
Butler “ 11,746.67	
Edson “ 8,417.39	
Green “ 8,279.24	
Highland “ 11,520.44	
A. Lincoln “ 7,307.97	
Moody “ 6,407.16	
Pawtucket “ 5,572.75	
Varnum “ 10,123.17	
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	78,457.69
Primary and Mixed Schools.....	68,992.27
Training School.....	10,478.77
Kindergartens.....	12,161.50
Special Teachers.....	4,539.50
	<hr/>

Total paid for instruction in day schools, \$201,007.48

Evening Schools:—

Teachers.....	\$12,154.75
Janitors.....	1,350 00
	<hr/>
	13,504.75

Drawing School:—

Teachers.....	\$ 3,776.50
Janitor.....	89.00
	<hr/>
	3,865.50

Cost of Supervision:—

Salary of Superintendent of Schools \$ 3,000.00	
Office assistant.....	440.00
	<hr/>

*Amounts carried forward.....* \$3,400.00 \$218,377.73

<i>Amounts brought forward</i> .....	\$3,400.00	\$218,377.73
Truant officers and assistant in supply room .....	4,183.77	7,623.77
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Total of Salaries.....		\$226,001.50
Fuel .....	\$15,125.15	
Water .....	1,261.64	
Gas for day schools.....	410.70	
Gas for evening schools ...	964.50	
Bills of Superintendent of Public Build- ings for repairs.....	1,784.28	
Repairs, furniture, curtains, etc.....	1,229.69	
Text books.....	7,573.33	
Writing books, drawing books, station- ery, etc.....	4,545.43	
Supplementary reading.....	1,349.59	
Bills of Middlesex County, board of truants .....	3,222.26	
Manual training equipment, etc.....	1,999.58	
Manual training, moving.....	726.63	
Printing, including annual reports.....	943.05	
Kindergarten equipment and supplies..	537.71	
Supplies, Manual Training school.....	148.67	
Janitors' supplies .....	926.58	
Board of horses, repairs of wagons, etc	728.34	
Power for ventilating purposes.....	1,025.42	
Electric lighting .....	608.88	
Rent of telephones.....	210.76	
Material for sewing classes.....	204.85	
Apparatus and material for High School	375.05	
<hr/>		
<i>Amounts carried forward</i> .....	\$45,902.09	\$226,001.50



<i>Amounts brought forward</i> .....	\$45,902.09	\$226,001.50
High School regiment.....	479.20	
High School graduation.....	202.43	
Training School graduating exercises	46.25	
Electric lights, Mann School.....	185.00	
Miscellaneous.....	2,503.84	

Total of bills.....	\$ 49,318.81
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Total expenditures.....	<u>\$275,320.31</u>
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### SCHOOL HOUSES.

#### RECEIPTS.

Appropriated and assessed .....	\$45,844.28	
Received from other sources.....	2,520.15	
Total .....		48,364.43

#### EXPENDITURES

Janitors .....	\$29,358.50	
General repairs and labor.....	18,447.60	
Total.....		47,806.10

Transferred To Treasury Fund....	<u>558.33</u>
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### HIGH SCHOOL ANNEX.

Balance, Jan. 1, 1900.....	\$ 16,804.85	
Appropriation.....	45,000.00	
Received from other sources.....	296.83	

Total receipts.....	\$ 62,101.68
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Expenditures .....	<u>55,151.94</u>
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Balance, Dec. 31, 1900.....	<u>6,949.74</u>
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The census of school children in 1900 was the third which has been taken by the truant officers and the second which has been taken in September, the enumeration having been made in May previous to 1899. The census of last year showed a gain of 1,469 children, though the gain in polls was but 356, a fact which seemed to indicate that September is a better month than May in which to secure an accurate count. The increase of 955 polls this year indicated a corresponding increase in the number of children, but the census showed a gain of only 261. Why the children between five and fifteen years of age should increase four times as fast as the polls in 1899 and only a little more than one-fourth as fast in 1900 seems at first a question hard to answer. Had the census of the different years been taken by different men the inference that some had been more accurate than others would have been irresistible, but the enumeration has been made by the same man in each ward in each of the three years. The truant officers, too, are men whose experience in searching for children during the whole year as well as in the month when they are taking the census gives them qualifications for this work possessed by no one else. I make no question that the census has been taken with as much fidelity and care this year as ever before; indeed, the experience of the past ought to help to make each enumeration more accurate if possible than any preceding one, and the explanation of the difference in results as compared with the increase in polls must, I think, be found elsewhere than in the accuracy of our count. The assessors suggest that after the polls were counted in May of 1899 there was a large immigration from Canada of those who brought children who would be counted in September, while the fathers would not be counted until 1900. This, possibly, accounts

for the difference in some part, but a still more important factor, I believe, is found in the fact that in the last year there have come to Lowell some thousands of immigrants, mostly Greeks, who are mainly adults, who would increase the number of polls while they have brought no children to increase our day school population. A considerable number of these immigrants are minors, who swell our evening schools, but families and small children are as yet almost entirely lacking.

The experiment of having the school census taken by the truant officers certainly has some advantages, yet is not wholly satisfactory. It saves an expense of more than \$800 annually; the work is probably better done than it would be by any one else; a considerable number of children illegally absent from school are discovered (about 70 this year) and sent to the places where they belong; but, on the other hand, there is no disguising the fact that the officers' regular work suffers somewhat while they are withdrawn from it, despite every precaution that we have yet learned to take. Supplies for the fall term are now delivered to schools during the vacation, with a fullness and care never before known, so as to leave the hands of the truant officers as free as possible in September. If, indeed, a teacher now lacks anything in the way of supplies when the new school year opens, the fault is elsewhere than in the supply room. The census is taken by Messrs. Thornton, Kelly and Roussin, while Mr. Sturtevant looks after supplies and truants both. The semi-weekly visits of the first three men to the schools are omitted while the census is being taken, but teachers are notified to report to the office cases of absences which need investigation, with the assurance that all such will receive prompt attention. In 1900 I believe that this was always the case. If

Mr. Sturtevant could not attend to all the cases reported he was helped, temporarily, by one of the other men. All that could be done, therefore, to keep the work up to its usual standard of efficiency was done, and yet the boys, the bad ones, seemed to know instinctively that the officers were giving less time to their usual work, and, naturally, took advantage of it. Some teachers, too, did not take the trouble to report to the office cases which they would have mentioned if an officer had come to them to inquire, and some lack of efficiency naturally followed. Truants almost always go in cliques or gangs, and several such sets got into such good, or bad, working order in September as to do considerable harm. Whether the injury counterbalances the advantage or not is an open question. Those teachers who dislike the trouble of reporting to the office are sure that it does. I am still in doubt, and, in the meantime, I hope to see the work of delivering supplies in August, and the work of looking after absentees in September, attended to in 1901 even more effectively than this year, if possible. In the effort to do this, I respectfully ask the active cooperation of all teachers.

The enrolment and attendance of pupils this year has been made up for the school year ending June 30, instead of for the calendar year as heretofore. This was done partly in compliance with a request of the State Board of Education, through its secretary, and partly because that, for schools, the school year is the simplest and most natural division. Nearly all pupils are promoted and change room and teacher at the opening of the September term. In the calendar year they would, therefore, be recorded on the time book of two teachers, though they could properly be enrolled but once. Great care has



always been taken to have the records accurate, and yet it seems as though there must have been some double enrolments in the past, for, under the present method, the total enrolment has apparently fallen from 13,957 in 1899 to 12,388 in 1900, although the average number of pupils belonging to the schools and the average attendance have both shown a small increase. The number attending at the close of the year, Dec. 31, also shows a slight gain, though the increase is not large enough for any special felicitations, not being, probably, as large proportionately as has been the increase in the population of the city. The High School is larger today than one year ago by 21, and the primary schools by 117. The grammar schools remain almost the same, while the kindergartens show a small loss.

Beginning with the year 1898, the enrolment sheets furnished to teachers have been so planned as to be suitable for binding. At the close of each year these sheets have been collected and bound into one volume, which is kept in the office of the secretary of the school committee. Previous to 1898 the names of children attending the public schools were preserved only in the registers of the several teachers, which registers were kept at the schools. To investigate a question of past attendance it was necessary to go to a school house and consult the records there. If it were not known in advance which school had been attended the work of finding a name was one of great difficulty. The simple device of binding the enrolment sheets, at a total cost of but one dollar for binding, has changed all this, and the name of every scholar who has attended a public school in Lowell, in any given year, with the age and residence of the pupil, and the name of the school attended, is now recorded in



a single volume, which is accessible at any time. Enrolments made for the school rather than the calendar year will probably be even more accurate and reliable than those of the past, and their preservation in annual volumes will, it is believed, constitute a record of great and constantly increasing value.

### APPROPRIATIONS AND EXPENDITURES.

Previous to the year 1898, the January appropriations made by the City Council for the support of schools were not intended to be sufficient to meet expenses, and large additional appropriations or transfers were made toward the end of each year. In 1897, for instance, the appropriation made in January was but \$192,500, though the expenses were expected to be nearly a half larger than that sum, and were, in fact, \$277,386.64. With the adoption of the new city charter, however, a most welcome change was made, and an amount intended to be sufficient has been appropriated in January of each year since. The amount so appropriated in 1898 was \$280,870.83, as was stated last year; the expenses of the department were \$273,458.47, the balance of \$7,412.36 being returned to the city treasury. It will be noted that the larger appropriation did not tend at all to encourage extravagance or waste, the expenses of the year being actually less than in 1897 by \$3,928.27. The large balance returned to the treasury was considered a reason, however, for a reduction in 1899, when \$276,947.53 was appropriated, \$272,654.13 was used, and \$4,293.40 returned. In 1900 an increase of several items of expense was foreseen, about \$1,000 for coal and several other thousands for salaries, and \$280,000 was asked for and \$270,000 given. This was a decrease

of \$10,000 in two years, although the number of pupils and teachers has been increasing all the time, and new school houses have required more coal, water, gas and other absolutely necessary supplies. The school committee did not reduce salaries, the only way in which expenses could possibly have been kept within the limits of the appropriation, but in other expenses a loyal effort was made to live as economically as possible. As a result, the expenses other than salaries, usually spoken of as "bills," have been kept down to \$49,318 81, a sum less by \$6,394.46 than the average for the four preceding years! The maximum of expenses other than salaries was reached, by the way, in 1897, when \$60,353.68 was so expended, a sum which has been decreased each year since. Salaries, however, have as steadily increased, the advance since 1897 having been \$8,968. This advance has been due, of course, to an increase in the number of teachers, salaries of individual teachers having remained practically the same for nearly forty years.

I am told that there are some people who think that the expenses of the school department are excessive, but I find no basis in fact for such an opinion. The salary of every teacher in the city is given elsewhere in this report, and, so far as I know, there is no claim on the part of a single citizen that any teacher is paid too much. And yet four-fifths of all our expenses are for salaries. Of the remaining fifth, a full third is for coal, water, gas, etc., on which further economy is impossible. The houses must be kept warm by the use of fuel, the sanitariums must be flushed with water, and the evening schools must be lighted by gas or electricity, even though these things cost money. Nearly another third of that same last fifth is expended for text books, writing-books,

drawing-books, practice paper, pens, ink, and other absolutely indispensable supplies, in the use of which no extravagance has ever been charged by any one who knows anything about it. It is true that the use of slates was discontinued some years ago, and paper, which costs more, was substituted, but I know of no one who would restore the slates for the difference in cost, and I know of no other expense where the substitution of one article for another would save a cent. In the use of text books and of material, too, the greatest economy is generally practiced. It is possible that some teacher somewhere allows a greater use of paper or some other supply than is absolutely necessary, but such cases are rare, if they exist at all; and, in general, text books are used altogether too long for decency or health. The cost of free books is not half as much as similar books would cost, if owned by pupils. The sum spent for text books this year, divided by the number of pupils enrolled, gives an average cost per pupil of only seventy cents. The items, too, which make up the remaining third of the last fifth are nearly all practically fixed charges. There was paid for the board of truants in the county truant school the sum of \$3,222, a charge which the school department must pay to the last cent, though one which should not, I think, be charged to schools, even if paid by the city at all. And, in my opinion, it should not be paid by the city, but by the county, which owns the school. Repairs of furniture, curtains, electrical apparatus, etc., cost \$3,000 this year, and was a sum far too small instead of too large, as any citizen will say who will go into the school houses and see them as they are. And so one might go on with every item in the whole list. It is easy to say that the total is large, and so it is, but I defy any man

to look over the itemized list of expenditures given in the preceding pages and find one on which any considerable reduction can properly be made.

The expenses for 1901 will certainly be larger. The new High School annex, for instance, will require at least 200 tons of coal, costing something more than \$1,000. The commercial department in the High School, a course demanded by the public if ever anything was, will cost \$1800 for equipment, and \$1200 for the salary of one teacher, and so on indefinitely. The sum of \$286,000 will be asked for, and this sum and more will be needed in 1901.

### SCHOOL HOUSES.

No change has been made in the number or character of the city's school houses during the year. The repairs made in the summer vacation took the form of painting and varnishing to an unusual extent, some eighty gallons of varnish being used on inside wood work. In this welcome freshening the pupils' seats and desks did not share. The Lands and Buildings department holds itself responsible for buildings, and repairs them as far as its appropriations will allow, but the furniture is left to the care of the school committee. The scraping and varnishing of furniture has apparently seemed so foreign to the work of the latter body that it has been neglected to an extent which has left seats and desks shabby, even in comparison with the wood work by which they are surrounded. This omission should, I believe, be remedied at once, and a stated sum, about \$500, should be appropriated each year to renovate and freshen school furniture until it is all restored to respectable condition. I recom-



mend that the amount named be so expended in the summer of 1901.

The school houses are generally adequate to the needs of the pupils who wish to occupy them, but there are a few congested sections which need relief. The overcrowded houses are practically the same as last year, the Highland, the Grand Street, the West Sixth Street, and the Lakeview Avenue. To these schools should be added the primary school on Charles Street, which has more than eighty children in one room. The committee is now negotiating the rental of a nearby building to which to remove the kindergarten now in the Charles Street building, so that the crowded primary room may be expanded into two. This, if consummated, will furnish all needed relief at this point, but the needs of the others remain as last year. I still think that an addition of four, or better of eight, rooms should be made to the Highland; that an eight-room building should be erected somewhere near Chelmsford Street, to which should be removed the two rooms at Howard Street, the two at Grand Street, and the two overflow rooms now in the Lincoln; and that a two-room addition to the Lakeview Avenue school house should be built at once, or, possibly, that a new four-room house should be erected somewhere to the northwest of the present house. The Butler and Carter Streets schools are also becoming uncomfortably full, but their needs are hardly as pressing as are those of the others named. The Butler has an overflow room in its hall, and Carter Street has one room so full as to require two teachers.

The only constructive work of the year has been on the building at the corner of John and Paige Streets, usually known as the High School annex. The walls of



this building were up in 1899 to the extent of one story, which was the total height then intended, but the folly of erecting a one-story building where two were needed was so apparent that the plans were changed, a new appropriation was secured, and another story added. The building as thus changed was advanced far enough so that the manual training plant could be moved into it during the summer vacation, but the rest of it is not yet in condition to use. It is hoped that it will be ready for occupancy by April, 1901. The building has suffered somewhat from the several changes of plan, but it bids fair to be very convenient and satisfactory. It is greatly needed, and its present state of completeness, if not all we could wish, is still a matter of congratulation.

### SCHOOLS AND TEACHERS.

The changes of schools and teachers have been less in 1900 than in many previous years. In the number of rooms occupied there has been no change. At the Highland it has been thought better to endure overcrowding in regular school rooms than to use the assembly hall for school room purposes, and the two classes which were taught in the hall up to June 30, 1900, have since been brought back down stairs. The teachers of these classes now act as assistants in regular rooms so that the number of instructors is not changed. The overcrowded room at Grand Street has been relieved by sending forty of its pupils to the Lincoln, and a new room has been opened in the hall of the Butler School, the new rooms at the Lincoln and the Butler just balancing the two discontinued at the Highland. The number of teachers employed December 31 is five greater than in 1899, the increase

being two in the High School, one at the Butler, one at Charles Street, and one at Carter Street, the last two as permanent assistants in overcrowded rooms.

Following are the changes in the roll of teachers:

## DIED.

Term of  
Service.

Mary L. Hill, Principal of the Worthen Street School, 42 years

## RESIGNED.

Annie R. Chase, Lincoln School..... 3 “

Gertrude L. Sponholtz, Varnum School..... 2 “

## TRANSFERRED.

Rosemary Lennon, from the Lincoln Kindergarten to the Agawam Street Kindergarten.

Gertrude A. Roberts, from the Agawam Street Kindergarten to the Lincoln Kindergarten.

## PROMOTED.

Mary J. Alger, promoted to be principal of the Worthen Street School.

Lillian C. Wholey, promoted to be principal of the Lakeview Avenue School.

## ELECTED.

Marguerite J. Cronin, to the Carter Street School.

Grace C. Delaney, to the Training School.

Annie T. Delay, to the Green School.

Mabel H. Ela, to the Training School.

Margaret C. Fox, to the Training School.

Julia G. Halloran, to the Lincoln Primary.

Daisy B. MacBrayne to the Varnum School.

Helen J. O'Hearn, to the Cabot Street School.

Bride T. Sweeney, to the Lincoln School.

Carrie B. Price, to the Plain Street School.

Lulu Turner, to the Highland School.

Edward S. Colton, to the High School.

Mary G. Stevens, to the High School.

Agnes Bailey, to the Varnum School.

M. Josephine Donehue, to the Lakeview Avenue.

Addie E. Edwards, to the Highland School.

Maud E. Green, to Middlesex Village.

Bertha McCue, to the Edson school.

Flora A. Owen, to the Moody School.

Florence E. Rowell, to the Sycamore Street School.

Harriet L. Wheeler, to the Worthen Street School.

Margaret F. Howe, to the Billings Street School.

In the death of Miss Hill the city loses one of its oldest teachers in point of service, and one whose fidelity was surpassed by none. Whether a teacher attracts pupils to her school or not may not in itself be a conclusive reason for praise or blame; it is, I suppose, possible that the teacher with a gift for rapidly reducing numbers may yet instruct well those who remain, while one who holds all she has and attracts others may yet lack something of perfection, but certainly the latter has some very important qualifications for her work. And this is just what Miss Hill had to a conspicuous degree. She usually began the year with a small or medium-sized class. As the months went by new faces would appear, and as the year drew near its close her room was always crowded to the limit, and sometimes past the limit, of its capacity. The newcomers would naturally be out of touch with her class. To prepare them for the grammar school would seem a hopeless task, and yet her patience and her courage never failed. In each one, however unpromising, she felt a personal interest, and for many she did an unsurpassed amount of individual work, at recess, at noon, after school, at her home as well as in her school room, and

to some she even continued her assistance after they had gone from her to the grammar school. If some thousands of the parents and children of Worthen Street do not rise up to call her blessed it will be because they fail to appreciate one of the kindest and most self-sacrificing lives I have ever known. And her example at least remains.

To the names of those who have resigned might properly have been added that of Miss Demers of the Training School class of February, 1898, who would have been elected in December had she remained a candidate. All who have resigned this year have since married. They were all good teachers whom we are sorry to lose, but as they have left us for their own gain we send congratulations.

### HIGH SCHOOL.

The event of the year, so far as introducing new work is concerned, has been the addition of a commercial course, which was opened in September. That there was a real need for it is shown by the fact that no less than 120 of the class entering the High School this year chose to take this course, a larger number than elected any other of the seven courses in the school. This need, indeed, has long been recognized. As far back as 1891 the report of the superintendent recommended "a thorough commercial course, equal to that of the best commercial colleges," and the committee would undoubtedly have opened one long ago but for the impossibility of finding any room for it in the building. As soon, therefore, as there was a prospect, even, of suitable quarters in the annex a thorough and well-rounded commercial course was arranged.



That commercial courses in high schools are not at present in very good repute is doubtless true and yet the demand for them has never been so strong. The lack of standing has apparently come from short and weak courses, which have been elected by the lazy, and into which those who failed at everything else could conveniently fall. Recent courses in most high schools have avoided this error, and are as long, as full, and intended to give as much discipline as any other. This precedent has been followed in Lowell. The course is for four years, though a student may leave it at the end of three, having done systematic work as far as he has gone. It contains a good amount of history, science, and mathematics, allows for at least one modern language, and is especially strong in English. Bookkeeping and practical business are given a prominent place for two years, and stenography for two more, and altogether the course is one which it will be an honor to complete.

It is intended that the bookkeeping of the commercial department shall occupy three rooms on the first floor of the annex. Two of these are large and will be used for recitation, while the third, which is between the others, will be the office, and will have in it a post office, bank, exchange, etc. The stenography and the typewriting, which come in the third and fourth years, will each require a room, the commercial law, commercial geography, etc., will require another, while the English, the history, the mathematics, and the other studies which are common to other courses will be taken in the regular recitation rooms of the school. The equipment for the bookkeeping and business rooms has already been contracted for, and will be the best of its class. As head of the department the committee has elected Mr. Edward



S. Colton, a graduate of Bryant & Stratton's Commercial College and a practical accountant, as well as a teacher of successful experience. The new course has started well, except as it has been hampered by failure to get into the annex, and there seems to be good reason to expect for it a great success.

Several other changes have been made which would be worthy of special note if it were not for the fact that they are only the culmination of the study and effort of many years. In the time and attention which has been given to the study of English, for instance, there has been a steady increase ever since I have known anything about the school. In 1892 Principal Coburn made a special report to the Superintendent of Schools in which he showed that the High School recognized and was trying hard to meet the demands of the colleges and of the public for more and better teaching of English. Beginning with 1895, all students who did not elect a full course in English were required to do a definite amount of work in it each year. This work was made to amount to at least one hour each week. In 1897 this was increased so as to make English a half course for all students who did not take it as a full course, and the character of the work in the full courses was extended and improved. This year the study of English has been made a department, and has been placed in charge of one of the most experienced and successful teachers of the school. With this head of the department, all the teachers of English, nearly a dozen in number, have had many meetings; the wisdom and experience of all has been combined; valuable papers have been presented and followed by kindly but most helpful criticism; a generous emulation has been encouraged, and the work has been systematized and

organized as never before. The head of the department teaches four hours each day, but has one spare hour which can be spent in supervision. The result is a union of effort and purpose which is certainly conducive to success.

Mr. Sherburne, who has long been the first submaster, has also been made the head of a department—that of the classics, of which he is such a master. The work of organizing this department and of systematizing its teaching has really been done in previous years, so there has been little need of conferences and meetings this year; but anything not already perfected is now in most favorable condition to receive attention. It is a matter of some gratification that the work as thus planned and arranged agrees almost exactly with the recommendations of the report of the committee on college requirements which was published a little later. In a school as large as the Lowell High School has now become, departments are a necessity if anything like close supervision is to be maintained, and the precedent established this year is likely to be followed in other cases in the future.

A glance at the courses of study in the High School, as given in the appendix, will show a very thorough and systematic re-arrangement which went into effect at the beginning of the September term. An expert in such work would undoubtedly be able to point out some infelicities in it, but all such are accounted for by local conditions; and for our purposes and with our limitations it has already shown itself to be a most helpful and satisfactory arrangement.

One or two changes in the rules have been made by the school committee which are believed to be improvements. By the first, the mid-year examinations have been

omitted. It has long been the custom to excuse from examination those whose rank for the term had been 85 per cent. or more. Half the students, therefore, would have nothing to do for several days, while the examination of the others did little good beyond making manifest a standing which was better and more fairly known before. The chance of passing the examination, too, was always an excuse for poor work through the term. A student would salve his conscience for poor preparation for regular lessons by promising himself that he would cram up furiously just before examination and so pass with credit. It is true that he rarely did this, but the hope of doing it was always possible, and when held was always an injury. Now each student knows that success depends upon steady and continuous good work in daily preparation, and not at all on the chances of an examination. His standing, too, not only for the month but for all previous months of the school year, is constantly before him, and must be seen by parents or guardians at the end of each month. The student, therefore, has all the incentive and encouragement which comes from such knowledge. A fortnight's time, too, is practically saved, a mid year reorganization of the school is rendered unnecessary and the general effect seems to be wholly good. The number of students of the junior class to be conditioned in December this year was less than a third of the number last year, a result doubtless due in large part to better preparation, but also due in part, possibly, to these more favorable conditions in the school.

Another change in the rules gives some credit for regular attendance and good work in military drill, calisthenics, and elocution. Under the most favorable circumstances this may amount, in a four years course, to the

credit of a full study for a diploma. Its advantages to some students are obvious, while its tendency is naturally to strengthen the interest in these exercises, especially in the elocution.

The graduating exercises of the school were held in Huntington Hall, June 28. Following is the order of exercises, the names of the graduates and of the Carney medal scholars:

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### ORDER OF EXERCISES.

1—MARCH. "The Ameer" . . . *Victor Herbert*

AMERICAN ORCHESTRA.

2—CONCERT OVERTURE . . . . . *Heinsdorf*

AMERICAN ORCHESTRA.

3—CHORUS. "Over the Fields of Clover" . *Geibel*

4—SALUTATORY. Character.

MARY ELIZABETH TOBIN.

5—QUARTETTE. "The Miller's Dream" . . . *Geibel*

MASTERS PATTEN, FINNEGAN, SANDERS, TARR.

6—PRESENTATION OF STATUARY.

FREDERICK T. GREENHALGE DEBATING SOCIETY.

WINFRED CLYDE MACBRAYNE, President.

PRESENTATION OF PICTURE BY CLASS OF 1900

FREDERICK NAYLOR RUSSELL, President of Class of 1900.



## ACCEPTANCE FOR THE SCHOOL.

MR. WILLARD EVERETT, President of the School Board.

7—SEMI-CHORUS. "Joys of Spring" . . . *Geibel*

Soprani—Misses Cleworth, Cockerille, Quinn.

Alti—Misses Kelley, Holman, Elvin.

Tenori—Masters Knowlton, Whipple, Favor.

Bassi—Masters MacBrayne, Tyrrell, Perry.

## 8—ADDRESS.

GEN. JOSHUA L. CHAMBERLAIN.

## 9—SELECTIONS. From the Opera "The Jolly Musketeers"

*Julian Edwards*

AMERICAN ORCHESTRA.

## 10—VALEDICTORY. Leaflets from a School-boy's Diary.

LUTHER ELMER GILMORE.

11—QUARTETTE. "Ave Maria" . . . . . *Abt*

MISSSES CLEWORTH, COCKERILLE, MARTIN, KELLEY.

## 12—PRESENTATION OF CARNEY MEDALS.

HONORABLE MENTION made of those who have  
attained a scholarship rank of 90 per cent.

SUPT. A. K. WHITCOMB.

## 13—SELECTIONS. From "The King's Bal Masque."

(a)—"The Dervishes" (Fanatical Dance) . *Bendix*

(b)—"Blue Beard and Fatima" . . . *Bendix*

AMERICAN ORCHESTRA.

## 14—CHORUS. "Unfold ye Portals" From "The Redemption"

*Gounod*

## 15—PRESENTATION OF DIPLOMAS.

HIS HONOR THE MAYOR, JEREMIAH CROWLEY.



## 16—SINGING OF CLASS ODE.

Words by JOSEPHINE ANNA BOYNTON

Music by MONK.

The sun of our school days its swift course has run,  
But we linger awhile till its last pale rays  
Shall fade from the milestone marked "Future" and "Past,"  
That stands at the bend of the parting ways.

We are loath to leave the accustomed path,  
Replete with the treasures of youthful delights;  
Yet we fain would try the shadowy road  
To which Fate's beckoning hand invites.

Is the pathway rugged or is it smooth?  
Will the sun of success cast a glow thereon?  
We question Fate, yet she answers not,  
But silent, relentless, she beckons us on.

But whithersoever our destinies lead,  
If Truth be our guide, and with hearts strong and true,  
We take up the new life, its cares with its joys,  
And do with our might what our hands find to do,

We shall see, one by one, the shadows will fly,  
And the rainbow of hope illumine our way;  
For each road that leads upward, though rough it may be,  
Will end in the land of the perfect day.

## 17—FINALE. March from "The Singing Girl"

*Victor Herbert*

AMERICAN ORCHESTRA.

**Graduates for 1900.**

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**FIVE YEARS' COURSE.**

Warren Wyman Fox.

Harriet Bancroft Whitaker.

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**FOUR YEARS' COURSE.**

Howard Chase Bean.

Louis Irving Perry.

Elmer Garfield Brennon.

Hazen Gray Pillsbury.

Edward Joseph Cahill.

Frederick Naylor Russell.

Arthur Henry Cashin.

Lester Asa Russell.

Osborn Hewes Cilley.

Frank Timothy Scannell.

Charles Edwin Cooke.

John Matthew Scannell.

William Olney Dearborn.

Tennyson Wendell Simpson.

William Watson Dennett.

Herman Ellis Thompson,

David James Donaldson.

Roscoe Comee Turner.

John Nelson Drury.

Clinton Pinkham Tuttle.

Paul Gordon Favor.

Richard Brabrook Walsh.

Luther Elmer Gilmore.

Arthur William Wells.

Herbert Willard Goddard.

Percy James Wilson.

Chester Mason Gould.

Leslie Adams.

Joshua Lorenzo Herrick.

Josephine Anna Boynton.

Thomas Garfield Ingalls.

Ethel Matilda Brien.

Arthur Waldo Lovejoy.

Elizabeth Staples Brown.

Winfred Clyde MacBrayne.

Mary Henrietta Carroll.

Paul Harold McOsker.

Bertha Alice Cleworth.

Willard Colburn Morrison.

Edith Virginia Cockerille.

Francis Aloysius O'Sullivan.

Edith Lavelle Coggeshall.

Jackson Palmer.

Annie Katharine Winifred Cooney

Percy Irwin Perkins.

Anna Agnes Coughlin.

John Perry.

Madeline Harriette Crevier.

Rhoda Maude Deane.

Bertha Marie Miller.

Marianna Louise Donovan.

Maude Ethel Moody.

Grace Dorothy Donovan.

Lauretta Louise Noonan.

Marguerite Mabel Elvin.

Julia Ellen O'Brien.

Julia Mabel Fox.

Mary Gertrude O'Donoghue.

Ella Leona Gale.

Maude Alicia Parham.

Rebecca Anne Gardner.  
 Sophie Elizabeth Girard.  
 Esther May Greene.  
 Lucy Pond Hall.  
 Annie Louise Higgins.  
 Laura Elvira Holman.  
 Marion Hovey.  
 Edith Bartlett Kelley.  
 Mary Emma Verecunda Lynch.  
 Annie Loretta Mahoney.  
 Alice Josephine Mealey.

Mary Genevieve Quinn.  
 Rosalie Marie Roach.  
 Clara Alice Rowell.  
 Mary Gertrude Seede.  
 Mary Katharine Shanly.  
 Bernice Ruby Sherburne.  
 Ida Alice Sleeper.  
 Grace Marie Swanson.  
 Mary Elizabeth Tobin.  
 Eva Garfield Whitmore.

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### THREE YEARS' COURSE.

Harry John Barclay.  
 Arthur Charles Bean.  
 Frank Campbell.  
 Eliot Alvan Coburn.  
 Arthur Ernest French.  
 Lindsay Percival Hands.  
 Walter George Howard.  
 John Humphrey Johnson.  
 Walter James Kenney.  
 Charles Aloysius King.  
 Harry Willard Knowlton.  
 David Lester Mackay.  
 William Thomas McCavitt.  
 William Albert McGaw.  
 Francis Patrick McGilly.  
 Charles Nelson Smart.  
 Oliver Stevens.  
 John Leon Sullivan.  
 Walter Edward Turnbull.  
 William Ignatious Tyrrell.  
 Hubert Alfred White.  
 Walter Hiram Wyman.  
 Mary Agnes Anderson.  
 Gladys Louise Ashworth.

Mary Leontia Corr.  
 Gertrude Madeline Delaney.  
 Irene Augusta Fox.  
 Grace Elizabeth Gardner.  
 Harriette Marie Griffin.  
 Ethel Hobart Hanson.  
 Mary Gertrude Harrington.  
 Ethel Elmira Hoagboom.  
 Alice Elizabeth Horan.  
 Mary Josephine Joyce.  
 Cora Ethel Lewis.  
 Helen Kidder Moulton.  
 Mary Agnes McNamara.  
 Katharine Loretta McKeon.  
 Emma Jane Offutt.  
 Margaret Etta O'Meara.  
 Mabel Edith Page.  
 Gertrude Gladys Randlett.  
 Maud Bell Ryan.  
 Susanna Agatha Stanton.  
 Lillian Amelia Strout.  
 Bridget Agnes Sullivan.  
 Bertha May Swanton.

Alice Gertrude Bassett.	Mary Alice Sweeney.
Josephine Bennett Bassett.	Ellen Alice Thompson.
Florence Ethel Breed.	Katharine May Tighe.
Minnie Mae Breen.	Emeline Gertrude Tyrrell.
Abbie Eurydice Burt.	Edla Mabel Winship.
Clara May Chapman.	Mary Frances Monaghan.
Anna White Coburn.	Lillian Wooding Wightman.
Elizabeth Burchmore Coburn.	Edna Walker.

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#### CARNEY MEDAL SCHOLARS.

Esther May Greene.	Luther Elmer Gilmore.
Mary Elizabeth Tobin.	Charles Edwin Cooke.
Ida Alice Sleeper.	William Watson Dennett.

#### MANUAL TRAINING.

For manual training, too, the year marks an advance, for its equipment was moved during the summer from temporary quarters in the old Moody School house to a new and permanent abiding place in the High School Annex. Of this building the whole west end has been set apart for manual training uses, and in it all machinery is now installed and in working order. Following is a list of the more important items of equipment, with the size and location of the rooms which are used.

First year, woodwork: Two rooms on the third floor, one 45x30 ft and the other 17x30 ft. The larger contains 26 woodworking benches with complete outfit, power grindstone, etc. The second is used as a finishing room, and is provided with conveniences for varnishing, shellacking, etc.

Second year, wood turning: Two rooms on the second floor, size same as on the third floor. The first

contains 12 Warner & Swasey lathes, 12 Reed 6 in lathes and 6 Reed speed lathes, with all shafting, hangers, pulleys, belting, etc., needed for best work. Power is furnished by a New England 20 H. P. motor. The smaller room contains one Carey buzz planer, one Wood's cylinder planer, one Gee band saw, one Diamond hand mortiser, one Perkins trimmer, one Gee combination circular saw, with necessary connections for power.

Third year, forging and moulding: First floor, room 62x30 ft. Equipment, 24 Sturtevant forges around the sides of the room and in the centre benches for moulding, with oven for baking cores, grindstone, etc. One end of the room is partitioned off to make an office and store room, and in the basement below is a 12 H. P. motor for power, with blower and blast fans.

Fourth year, metal working: Second floor, room 27x17 ft. Equipment, four Reed machine lathes, one Hendey machine lathe, one Flather's shaper, one Washburn Shop goose-neck sensitive drill, one Norton Emery Wheel Co's. universal grinder, with shafting, etc. Power is furnished by a 12 H. P. motor.

A drawing room, for all classes, third floor, 58x27 ft. is equipped with 24 drawing stands and six drawing desks with drawing boards and instruments complete.

The annual cost of equipment has been large for several years. It will be less in 1901, a drill for the machine shop and a gas furnace for melting castings being the principal things now required. Everything obtained so far has been the best of its class, and it is believed that our equipment for manual training compares favorably with that of other schools in the state.

The number of students to elect the manual training course in September was 51, of whom 37 were members



of the entering class at the High School, and 14 were from upper classes. The second year class numbers 30, the third year 10 and the fourth year 5, a total of 96.

### PRIMARY AND GRAMMAR SCHOOLS.

In these schools, in which are found nine-tenths of all our public school pupils, there has been, I think, less change than in any previous year in which I have known anything of them. In teachers there have been but three changes, though the number of elected teachers has been swelled considerably by the filling of vacancies; in rooms, as before stated, there has been no change; in number of pupils the grammar schools have scarcely changed at all, while the primaries have gained less than two hundred; the course of study remains the same; of text books none has been removed and only two, Montgomery's History of the United States and Lewis's First Manual of Composition, have been added. The latter was specially desired by the grammar masters who thought it would be of great value to ninth grade pupils, while the former, though not asked for, has been ordered in numbers to indicate its popularity.

In supplementary reading two books have been added, Guerber's Story of the Greeks in the sixth grade and the same author's story of the English in the seventh grade. These books are for reading rather than study. Ability to read well and understandingly is still regarded as far more important than the acquisition of facts, even in grades as high as the sixth and seventh, and yet it is hoped that these books will be so read as not only to be enjoyed, but also to leave some permanent results of value in the way of increased knowledge and increased interest in the subject.

## KINDERGARTENS.

In number of rooms or teachers there has been no change. In the character of the work there has been an advance in some lines which has won much praise from outsiders well competent to judge. The teachers are all, or nearly all, taking special work at the Normal school afternoons, as they have done every year since the state school came to Lowell. In the leisure of their afternoons they have an advantage which other teachers may well envy, and they are certainly making as full use of their opportunities as any teachers could well do.

## TRAINING SCHOOL.

The Training school has been continued through the year without material change. It still consists of nine grammar and four primary rooms, with an average number of pupils belonging of 485. Its supervisory and teaching force consists of a principal, three unassigned assistants or critic teachers, six elected or temporary teachers, and fifteen members of a practice class.

As has been stated in previous reports the method of selecting the teachers' practice class was by examination up to and including February, 1897. Two classes were admitted annually, and at the date mentioned the length of the course was two years, divided into four terms. For the first, which was devoted mainly to normal work, no payment was made; for the second, in which a little teaching was done, there was a payment of \$10 per month; and for the third and fourth in which teaching became more continuous, the salary was increased to \$20. After February, 1897, the school committee, in anticipation of the coming of a State normal school, ceased to

accept candidates until the summer of 1899, having decided as far back as 1897 to restrict membership in the practice class to graduates of colleges and of the Lowell Normal School, the latter in the order of their rank in that school. It was further agreed to reduce the length of the course to one year, to give the young ladies who might compose the practice class continuous work in teaching, and to pay them \$20 a month for their services through the year.

In June, 1899, two college graduates and twenty graduates of the Normal School applied for admission. The first were both accepted, and of the latter the first sixteen were received in their order of rank in the school from which they came. And here it should be said that the Normal School did not directly give relative standing. It did give for each young lady a rank expressed in the terms, Excellent, Good, Fair, or Poor, on the following: Scholarship, Success in the Practice School, Ability as a Disciplinarian, and Promise of Success as a Teacher. From these marks a relative rank was deduced by placing at the head of the list those who were "excellent" in everything, of whom there were two, and at the foot those who were no more than "fair" in anything, with the others in proper order between. On the relative standing thus obtained the committee based its action, no names being seen by any member of the committee until after a choice had been made, by rank.

After the names had been arranged in order of standing a numerical value was assigned to each of the words used by the normal school to indicate rank, to see how relative position expressed in figures would correspond with that based on words. For this purpose Excellent was

counted 3, Good 2, Fair 1, and Poor 0. The ranks thus obtained varied from 12 to 4, the order, as was expected, remaining exactly the same as before.

Of the young ladies admitted five did not enter the school, or did not remain to finish the course, and a class of thirteen graduated at the end of the school year.

In June, 1900, applications for places in the next practice class were received from three college graduates and from twenty-one graduates of the Normal. The committee decided to accept all of the former and sixteen of the latter. The information furnished as to the standing of the normal graduates was in the form of the marks, Excellent, Credit, Passed, Deficient, or Failed, on each of 26 subjects and on each of three months of practice in the model school. To deduce a relative standing from marks so numerous and so complicated it was found necessary to assign to them numerical values, and for this purpose Excellent was counted as 5, Credit 3, Passed 1, Deficient 0, and Failed 3. It was further decided to give to scholarship and success in practice equal values, and the action of the committee was based on percentages thus made up. Of the number thus accepted four did not choose to enter the school and the practice class now in service numbers fifteen.

August 14, 1900, the school committee rescinded all previous rules on the subject of admission, and unanimously adopted the following:

"Candidates for the practice class at the training school must be graduates of a college of the first class or graduates of a normal school. The number to be received each year shall be such as will, in the opinion of the committee on teachers, be required to keep the primary and grammar schools of the city supplied with



teachers, and it shall be the duty of this committee to present its estimate to the full board at the regular meeting in May of each year. Application blanks for admission to the practice class at the training school shall be ready for applicants after June 1, and all applications must be filed with the secretary of the committee prior to July 1 for a practice class to begin work in September of the same year. The basis of selection shall be first, graduates of colleges of the first rank without examination; second, graduates of normal schools who, because of the limited number required, shall be admitted by rank on a competitive examination."

In accordance with the foregoing rule an examination will be given in the summer of 1901 to candidates for the practice class at the Training School. To this examination all graduates of a normal school will be eligible. Those who are accepted will be given work as teachers at the opening of the September term, at a salary of \$20 per month. At the end of the year, if their work has been satisfactory, they will be given the preference for any temporary or permanent position which may open in the primary or grammar schools of the city, with the certainty of an election sometime. Permanent places in the public schools of Lowell are, in my opinion, very desirable positions; the experience to be gained in the Training School is, in my opinion again, of great value; whether one is willing for the sake of this experience in the present, and of the certainty of an election later, to be tested for a year at a nominal salary is a question each would-be teacher must decide for herself.

The names of the graduates of June, 1900, will be found in the appendix, following the names of elected teachers.



## EVENING SCHOOLS.

Attendance at the evening schools has increased considerably this year, especially of Greeks at the Mann School. The ten rooms of this school, indeed, have not been large enough to accommodate all who have wished to attend, and two rooms, affording seats for one hundred pupils, have been opened on the third floor of the Worthen Street school house. The only change in schools has been the opening of a single room on Railroad Street for Hebrews,

Following is the record of attendance, etc., for the last complete term, with names of the graduates of the High School;

# SUMMARY OF ATTENDANCE.

For the Term 1899-00.

SCHOOLS.	Teachers and Principals at Opening of Term.	Teachers and Principals at Close of Term.	Whole Number on Time Books.			Average Number Belonging.			Average Attendance.			Per Cent. of Attendance.
			Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
High .....	17	17	421	361	782	245	226	471	227	220	447	81
Aiken Ave .....	6	4	192	169	361	183	165	348	171	150	321	96
Bartlett.....	16	14	....	305	305	....	210	210	....	186	186	80
Butler.....	4	4	143	19	162	53	14	67	12	37	49	73
Colburn.....	4	5	84	42	126	41	26	67	38	24	62	85
Edson.....	6	6	119	78	197	49	52	101	45	49	94	93
Franklin.....	8	7	169	60	229	80	40	120	72	34	106	88
Green.....	21	17	569	....	569	281	....	281	254	....	254	90
Mann.....	20	16	387	....	387	237	....	237	212	....	212	89
Old Moody.....	4	3	70	35	105	40	17	57	35	15	50	73
Pawtucket.....	2	1	27	12	39	13	5	18	10	4	14	70
Varnum.....	5	4	106	88	194	39	49	88	27	42	69	80
Totals.....	113	98	2287	1169	3456	1261	804	2065	1103	761	1864	83

## GRADUATES OF 1900.

## REGULAR COURSE THREE YEARS.

Florence Veronica Brett.	Ellen Agnes Ryden.
Josephine Mildred Charlton.	Mary Agnes Teague.
Katherine Josephine Counihan.	Etta Calista Wedge.
Nellie May Court.	Jessie Mabel Whitworth.
Rose Patricia Downey	Joseph Cartner Atkinson.
Alice Grace Flanders.	Alfred Herbert Berry.
Helena Beatrice Farrell.	Herbert Thomas Hadley.
Katherine Raymond Gilligan.	John Husler Harrison.
Eleanor Mary Holmes.	Joseph Haworth.
Mary Veronica Horne.	Patrick Francis Kelley.
Mary Agnes Kenney.	Frederick Adolphus Mason.
Eva Albertie Leet.	John Henry Murphy.
Florence Avery McKidder.	John Joseph O'Rourke.
Margaret Veracunda Muldoon	Humphrey Francis Sullivan.
Catherine Elizabeth Mullen.	John Joseph Wallace.
Mary Rose Reardon.	Aretas Jason Young.
Mary Elizabeth Roy.	

## CHEMISTRY COURSE.

## THREE YEARS.

Edward Joseph Blinkhorn.	John Joseph Maher.
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## STENOGRAPHY COURSE.

## TWO YEARS.

Mary Weymouth Carter.	Georgiana Frances Walker.
Martha Gertrude Curtin.	William Matthew Clark.
Leonie Marion Cutting.	Walter Jewett.
Antoinette Fiske Dodge.	Joseph Hector Lavallee.
Janet Jack Hume.	William Hugh Murray.
Katherine Aloysius Kelley.	Frank Bancroft Neeland.
Margaret Walker McDonald.	

## EVENING DRAWING SCHOOL.

The work of this school in machine drawing affords so excellent and so necessary a preparation for the Textile School that the attendance in the machine drawing department has increased very much in the last two years. The registration in this class alone has been 206. One new teacher was added in 1899 and another in 1900, and still there are not enough. The other departments are doing their usual good work, with about the usual attendance. The record for the term of 1899-1900 is as follows:

CLASS.	Number of Teachers at Close of Term.	Whole Number on Time Books.			Average Number Belonging.			Average Attendance			Per Cent of Attendance.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
Architectural . . . . .	4	68	1	69	51	1	52	36	1	37	71
Machine . . . . .	6	182	....	182	138	....	138	108	....	108	79
Free-hand . . . . .	5	99	45	135	54	31	85	35	25	61	71
Modeling . . . . .	4	95	64	159	32	23	55	28	20	48	87
Practical Design . . . . .	2	16	10	26	12	9	21	11	7	18	86
Totals . . . . .	21	451	120	571	287	64	351	219	53	272	79

## SCHOOL ATTENDANCE AND TRUANCY.

The revision of school attendance laws in 1898 made several improvements, but resulted in other changes, the value of which may well be doubted. The age to which school attendance is compulsory was raised to fourteen years, which was well; but provision for work in vacation was omitted,

which is not well. The result is that boys thirteen years old, who are able and willing to work, are kept in idleness all through the long summer vacation, supported by parents, who, in many cases, have sore need of their help. Such boys not unfrequently receive much real harm from bad associates on the street during this long period of enforced idleness, and the natural tendency of the life they are compelled to lead is toward hoodlumism and fruit-stealing. A change which will permit the employment of children under fourteen years of age when the public schools are not in session would be a benefit to the public, the parents, and to the children themselves.

Another greatly needed change is a provision for a truant school for girls. There are not as many girls who play truant as boys, but there are a considerable number, and their need is as great as that of the boys, and possibly greater. Truancy is due to the home rather than the child in the majority of cases, and certainly girls with bad homes are in as great need as boys in the same circumstances. The county truant school at North Chelmsford is a most useful institution. All boys who are sent there are improved, temporarily at least, and if the improvement is not permanent it is generally due to the bad home influences to which they return after leaving the school. But for girls there is no place but the State Industrial School—a penal institution. Now, truants are not criminals, and one reason for sending them to a truant school is to prevent them from becoming such. Girl truants are not committed to Lancaster by us, nor should they be sent there for truancy alone, but for them a suitable and proper place should certainly be provided.



The work of looking after absentees and truants in Lowell is done, I believe, with thoroughness and discretion. The report of the truant officers, which follows this report, gives the details :

# REPORT OF THE TRUANT COMMISSIONERS FOR THE YEAR 1900.

	Absentees.	Truants.	Working without certificate.	Wandering about the streets.	New scholars	Juvenile offenders.	Violating the rules of school.	Total number cases investigated.	Arrested.	Sent to the Middlesex County Truant school.	Placed on probation.	Visited second time.	Visited third time.	Working certificates issued—(14 to 16) years of age.	Working certificates approved—(14 to 15) years of age.
January .....	190	25	0	10	3	12	0	225	4	3	1	20	17	100	20
February .....	135	24	0	37	2	23	0	196	2	1	1	36	14	66	25
March .....	88	25	0	125	3	18	0	238	6	3	3	0	15	88	24
April .....	162	67	0	28	0	19	0	257	4	2	2	65	33	157	25
May .....	283	87	0	27	12	68	0	397	6	5	1	64	42	119	62
June .....	175	73	0	34	4	23	0	282	5	4	1	63	31	133	23
July .....	...	...	...	...	...	...	...	...	...	...	...	...	...	179	25
August .....	...	...	...	...	...	...	...	...	...	...	...	...	...	105	20
September .....	69	26	0	0	0	0	0	95	0	0	0	3	0	76	19
October .....	72	48	0	15	8	13	0	120	3	2	1	20	12	70	15
November .....	250	103	0	10	10	49	0	363	10	7	3	67	25	95	21
December .....	152	32	0	19	0	12	0	201	5	4	1	23	9	75	20
Totals .....	1576	510	0	305	42	237	0	2374	45	31	14	398	198	1263	269

## Whole Number of Contagious Diseases Reported by the Board of Health.

SCARLET FEVER .....	53
DIPHTHERIA .....	51
MEASLES .....	48
MEMBRANEOUS CROUP .....	5
SMALL POX .....	2
TYPHOID FEVER .....	4
<b>TOTAL</b> .....	<b>163</b>

## IN CONCLUSION.

The superintendent of schools in a neighboring city has announced his intention to signalize the close of the nineteenth century by issuing a report much fuller than usual, a report intended to show the condition of the schools of his city so fully that men who may come after him will be able by referring to it to know the actual conditions in 1900, and so be able to estimate changes and measure progress. I recognize the value of such a report and the propriety of preparing it at the present time, but when I tried to plan what might be done in this line in Lowell I confess that I could think of little which seemed to me feasible or worth while which is not already done. I was, indeed, a little surprised myself, when I came to think of it, at the completeness of our usual annual report. To begin at the beginning, this report gives the name and location [of every school house in the city, with the kind of school for which it is used, the number of its rooms, of the seats in these rooms, and the number of pupils now accommodated by it. On the legislative side it gives the names and residence of all committeemen, with date of election and term of service; names of standing committees on] which they serve; and of the schools which are assigned to each as sub-committee. In the line of finances it gives the total cost of the schools, subdivided so as to show expenses of the different kinds of schools, as high, grammar, etc., with average cost per pupil in each. The total cost of supplies is given, divided into a score of departments so that the expense of each may be seen at a glance. Of teachers, there are recorded the names, residence, salary, date of election, place of employment, and subject or grade taught.

To the names of elected teachers is added a full list of all temporary and substitute teachers, with names of all who hold certificates of qualification entitling them to teach if needed. Records for children include total number, divided to show number in each class of schools, enrolment, average attendance, per cent. of attendance, number of graduates, average number to the room and to the teacher, etc. The names of all text books in use are given, with the time assigned to each subject, and the plan of work of every grade from the beginning of the kindergarten to the last year of the high school. The record is doubtless commonplace; there has never been any pretense that it is anything else. Abstract discussions of pedagogic principles have been omitted, it is true, but as a statement of existing conditions and a record of the year's work, I submit that it is fairly complete.

The one thing this report lacks is a measure of existing attainments on the part of the pupils. No photographic process, however, has yet been invented which shall picture children's minds; as soon as there is we shall be glad to use it. Results as measured by written work could easily be obtained to the extent of tens or hundreds of thousands of sheets of pupils' pencilings, but space is lacking to print copies of them, and their value would not be very great if printed. Questions prepared by the teachers and used as tests, and which may fairly be assumed to have been correctly answered by a majority of the pupils, would be worth more. Thirty-four such sets were prepared by the superintendent and the grammar masters for use in June, and I have thought seriously of printing them in this report. They would, I believe, represent existing ideals on the part of teachers and existing

attainments on the part of pupils in each grade better than anything else which could be presented in a report like this, but I doubt if the public would care for them. They would occupy from twenty to thirty pages of the report, and I have not deemed it worth while to include them. If there is any demand for them I shall be glad to give them in any future report.

As to attainments, however, this much can fairly be asserted: The finished product of our schools, the graduates of our High School, continue to go without conditions, and often with honors, to the best colleges in the land, and in each grade below, down to and including the kindergarten, the work prescribed is done, and generally well done. The text books named are mastered; in addition to this all the virtues of punctuality, fidelity, honesty, truthfulness, etc., with the corresponding habits of order, study, attention, courtesy and sustained effort are being inculcated by precept and example. Knowledge, training, character, the three objects for which our schools are maintained, are all being attained, not of course in the extent or perfection we desire, and yet in a degree to reflect great credit upon our whole school system and the worthy and faithful teachers who represent it.

To the teachers, to the truant officers and all associated with me in the work of carrying on the schools, and to the school committee who represent the whole people of our city in conserving their interests, I owe and hereby extend more than formal thanks.

Respectfully submitted,

A. K. WHITCOMB,

*Superintendent of Schools.*



# COURSES OF STUDY.

## TIME TABLE

In minutes, per week, for the

### PRIMARY AND GRAMMAR SCHOOLS.

	1st Year.	2d Year.	3d Year.	4th Year	5th Year.	6th Year.	7th Year.	8th Year.	9th Year.
Reading.....	755	570	520	300	220	180	160	150	150
Arithmetic .....	150	210	240	250	280	280	280	280	150
Algebra.....	....	....	....	....	....	....	....	....	120
Grammar .....	....	....	....	....	....	120	130	150	170
Comp. and Lang.....	....	75	75	150	150	100	100	100	100
Geography .....	....	20	30	180	180	180	170	150	150
History.....	20	20	30	40	60	60	140	150	150
Spelling .....	60	90	90	100	100	100	100	100	90
Writing .....	60	60	60	60	60	60	60	60	60
Drawing .....	60	60	60	60	60	60	60	60	60
Music.....	60	60	60	60	60	60	60	60	60
Nature Study.....	30	30	30	60	60	30	30	30	30
Physiology.....	25	25	25	....	30	30	30	30	....
Sewing.....	....	....	....	60	60	60	....	....	....
* Manners, Morals.....	25	25	25	25	25	25	25	25	25
Physical Culture .....	30	30	30	30	30	30	30	30	30
† Recesses.....	200	200	200	100	100	100	100	100	100
† Opening Exercises .....	25	25	25	25	25	25	25	25	25
Totals .....	1500	1500	1500	1500	1500	1500	1500	1500	1500

\* Required by State Law; time fixed at five minutes each day by vote of the School Committee.

† See Sec. 22, Chap. III, of the rules of the School Committee.

‡ See Sec. 23, Chap. III, of the Rules. If for any reason a recess is shortened or omitted the time for the same should be given to physical exercises, and the hours for closing school prescribed by the School Committee should not be changed.

Book-keeping may receive one-half the time assigned to penmanship in the ninth year.

Physics, optional, in the ninth year, may occupy 60 minutes per week, to be taken equally from physical culture and grammar.

The above table is intended as an approximate estimate of the relative importance of the different studies, and teachers are at liberty to vary the time for each study within such reasonable limits as circumstances may require.

## FIRST YEAR.

## FIRST HALF.

READING.—Teach at first by the sentence and word method, beginning with script letters on the blackboard. As soon as a few words are learned use phonic analysis to secure distinct articulation and assist in the recognition of new words. Consult on the subject of phonetics Ward's "Manual of Instruction for the Rational Method in Reading," and the Connecticut School document entitled "Phonetics in Teaching Reading."

WRITING.—Short sentences from blackboard copy.

LANGUAGE—Children should be led to talk freely about things with which they are familiar, and to reproduce short stories told them by the teacher. Complete statements, correct forms of speech, and distinct articulation should be required, with care, however, that corrections are not made in a way to repel confidence or lessen interest. The importance of making children enjoy the first weeks of school life cannot be overestimated. Memory gems, brief maxims, and short selections of poetry should be learned and recited in this and all succeeding grades. History and literature in the form of short stories should have some place from the first, care being taken to have such stories very simple as well as short.

ARITHMETIC.—Numbers from one to five, inclusive. Add, multiply, subtract, and divide, developing all processes by the aid of objects.

NATURE STUDY.—Lessons to recognize and name a few common plants, animals, and minerals, and to note

single qualities of each. Teach only from observation and experiment. The "Outline Course," prepared by the N. E. Conference of Educational Workers, may be used as a manual.

PHYSIOLOGY.—Oral lessons, teaching the names and uses of the external parts of the body, and the simplest rules of health. Teach the effect of the use of alcoholic stimulants and narcotics, as required by the laws of the State.

MANNERS AND MORALS.—As required by the Public Statutes of the Commonwealth and printed on page 30 of the Rules of the School Committee in this and all succeeding grades. Mrs. Dewey's "How to Teach Manners," or Miss Wiggin's "Lessons on Manners," may serve as a manual.

MUSIC AND DRAWING.—Throughout the course as directed by the special teacher of each of these branches.

#### SECOND HALF.

READING.—Franklin First Reader and supplementary readers. Continue phonics with much drill on phonograms and their blending into words. See that every phrase is spoken as a whole. In this, as in all grades, the aim is to secure a full comprehension of the thought, natural expression, distinct articulation, correct pronunciation, and ready utterance.

If the last part of the First reader proves too difficult for the first year leave a part to be finished the second year.

WRITING. — Sentences from the blackboard, chart, and teacher's copy. The teaching of spelling should be included in the same exercise. See Ward's manual, page 29. If all the letters of the alphabet have not been learned by the pupil by the end of the year, unconsciously, give a little special instruction to accomplish this object.

LANGUAGE. — Conversational lessons as in the first half, carefully correcting all errors of expression. In this respect every lesson in this and all succeeding grades should be a language lesson. History and literature continued. Whenever possible make stories more interesting by showing pictures. Begin writing short sentences, and teach the capital at the beginning of the sentence, the capital I, and the period and interrogation mark.

ARITHMETIC. — Numbers, oral and written, to ten inclusive. Use objects, at first, but discard them gradually as soon as pupils can do without them, and give much rapid drill in applied and abstract work. Arabic and Roman notation to ten (and further, so as to enable pupil to tell page, lesson and paragraph in the reading book, at the option of the teacher.) Teach and use the signs  $+$ ,  $-$ ,  $\times$ ,  $\div$ ,  $=$ , and have their use begun by pupils. Teach, objectively, the fractions  $\frac{1}{2}$ ,  $\frac{1}{4}$ ; coins from one cent to ten cents, pint, quart, inch.

NATURE STUDY. — Lessons as in first half. Teach only the most general and obvious features, and assist pupils to find out all facts for themselves as far as possible.

PHYSIOLOGY. — As in the first half. In connection with names and uses, teach the proper care of the hair, teeth, nails, etc. Do not try to teach too much; only general facts which are within the range of the pupils'

observation are wanted. Show importance of cleanliness, exercise, proper clothing, good food, pure air, etc., in this and succeeding grades.

## SECOND YEAR.

### FIRST HALF.

READING.—The first half of the Franklin Second Reader, and supplementary readers, with phonetic drill as before. The ideal in this and all succeeding grades of the primary course is to have thoughts given as wholes with no hesitating over or at the separate words. To enable pupils to do this all new and difficult words should be pronounced and their meaning explained before oral reading is begun. Then, by questioning, make sure that the pupil fully understands what he has seen in print, and allow him to read, orally, only when he is ready to do so without halt or break. Make haste slowly, and give pupils much easy reading, rather than a little which is difficult.

WRITING.—Sentences and words as in the first year, and from dictation. Use capitals, the period and the question mark. As before the same exercise should teach spelling. Oral spelling may also be begun at the option of the teacher. Teach children to spell their own names and the names of places or objects in which they are interested.

LANGUAGE—Teach the use of good English by illustration in readings and story telling, using for this purpose selections simple enough to be suited to the children and yet such as are in good literary form, and give practice in very simple reproductions, both oral and written. The literature best adapted to this grade is that of fairy tales



and folk lore stories, and the history is that of mythology and legend. Local history should receive a prominent place, and such stories as those of Columbus, the Pilgrims, Washington, etc. would be appropriate. Suit history to holidays as "The First Thanksgiving," to November, etc.

ARITHMETIC. — Numbers, oral and written, in separations and combinations, to twenty. Objects may be used if necessary, but ought not to be greatly needed. Simple operations in small fractions and in denominate numbers also continued. Teach pupils to read and use the signs +, −, etc.

GEOGRAPHY. — Teach cardinal directions, applying the terms, north, south, etc. to all objects near enough to the school house to be within range of the child's observation or knowledge, and give easy oral lessons at appropriate times on natural objects and phenomena, as sun, clouds, rain, etc. Note temperature as warm, hot, or cold, and the weather as sunny, cloudy, or rainy. Consult Frye's Primary Geography in this and all other primary grades.

NATURE STUDY. — Work of the first year continued and extended. Of plants name parts, as stem, leaf, bud, etc. Name parts and note habits of animals, birds, insects, etc. Remember that no lesson is worth giving which does not thoroughly interest the pupil at the time, and tend to increase his regard for the natural objects which are all about him. Have pupils draw and describe, orally and in writing.

PHYSIOLOGY. — The senses: the eye and sight; the ear and hearing. Teach only the most general features,

any thorough study of the anatomy of the eye or ear being wholly out of place. Temperance teaching as before.

#### SECOND HALF.

READING. — Franklin Second Reader completed. Phonic drill continued and emphasized. If pupils cannot easily complete the Second Reader, omit the last part, and substitute easy reading from supplementary readers.

WRITING. — On paper, from blackboard copy, from dictation, and from print as found in the reading book.

SPELLING. — Words of the reading lesson copied by pupils either from the book or from dictation, or spelled orally, or both. Teach the spelling also of objects like articles of food or clothing with which children are familiar.

LANGUAGE. — As in the first half. Oral and written exercises. Continue to give attention to capitals and the most common marks of punctuation. History and literature as in the first half.

ARITHMETIC. — Numbers, oral and written, to fifty, with drill as in the first half. Roman notation to fifty. Coins and dollar sign; pint, quart, gallon; pint, quart, peck, bushel; inch, foot, yard; hour, day, week, month, year; dozen. Fractions,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{3}$ ,  $\frac{1}{6}$ .

GEOGRAPHY. — Continue work of first half, and begin the work of recognizing and naming bodies of land and water which are within the range of the pupil's observation, as hill, valley, river, brook, etc. Field lessons are

strongly recommended. With growing plants in the school room, teach effects of too great heat or cold, lack of moisture, etc.

NATURE STUDY.—As in the first half. Experiment with seeds planted in pots in the school room. Have children gather cocoons, and watch for the change into moths and butterflies. Make regard for animal life an integral part of all lessons on animals. Observe, draw, describe.

PHYSIOLOGY.—The senses continued; the nose and smell; the tongue and taste; touch. Show the use and value of all the senses, and the ill effects of abuse, including under the latter topic the effects of alcohol and tobacco. Be careful not to lessen influence by overstatements.

### THIRD YEAR.

#### FIRST HALF.

READING.—The first half of the Franklin Advanced Second Reader, and supplementary readers. The habit of reproducing that which has been read, usually orally, but sometimes in writing, which should have already been begun, becomes in this and succeeding grades a matter of the greatest importance, and every reading lesson should have in connection with it some work of this kind.

WRITING.—On paper with pen or pencil, and in the writing book with pen. In all written work in language, nature study, etc., insist on order, neatness, and the very best penmanship of which the pupil is capable.

SPELLING.—Words and sentences copied from books or from the blackboard, and afterwards written from dic-

tation. New words in the reading lesson spelled orally and afterwards written in sentences. Give much drill on familiar words which are often misspelled, but do not consider it necessary to teach the spelling of all the difficult and uncommon words which are found in the reading books.

LANGUAGE. — Oral and written exercises. Review, continue and extend all work of previous grades. Teach different forms of sentences, the use of is, are; was, were; did, done; saw, seen, etc; the correct use in sentences of some synonyms, as big, large; like, love, etc.; and a few homonyms, as fore, four; write, right; no, know, etc.; the use of capitals with proper names, some abbreviations, and such punctuation as is needed in the written work done by the pupils,

The work in history and literature may be extended somewhat, both in use and in subjects. A little written reproduction may be added to the oral, and stories for literary culture may include myths, fables, and folk lore such as are given by Hawthorne in his "Wonder Book," or Scudder in his collection of folk lore tales. In myths, choose those of natural objects, as "Ulysses and the Bag of Winds," etc. History may include more stories of noted men and events. The history of Lowell is worthy of much attention, especially the story of its founding. Note use of Indian names, as Wamesit, Merrimack, Pawtucket, etc. Use pictures when possible.

ARITHMETIC. — Numbers, oral and written, Arabic and Roman notation, to one hundred. Give much attention to adding numbers in columns, and to the multiplication table.

GEOGRAPHY.—Teach as many land and water surfaces as can be brought within the range of observation (names, not definitions) and, by the aid of pictures, begin to develop some knowledge of objects beyond vision. Field lessons and sand modeling, if possible.

NATURE STUDY.—Observation lessons on familiar plants, animals, and minerals continued, to include some knowledge of parts, habits, uses, qualities, etc., with comparisons noting resemblances and differences.

PHYSIOLOGY.—The bones, teeth, skin and muscles. Teach few names, and only the most general features, giving special attention to the laws of health. Temperance teaching continued.

#### SECOND HALF.

READING.—Franklin Advanced Second Reader completed, and supplementary readers. Continue phonics and enunciation exercises.

WRITING.—Copy book No. 2 with pen, and paper with pen or pencil, as before.

SPELLING.—As in first half.

LANGUAGE.—At the end of this year pupils should be able to write simple statements legibly and in correct form, and should have such knowledge of punctuation marks, capital letters and common abbreviations, as is needed in such writing. They should have had some practice in the simplest form of letter writing. The work to be done is indicated in the foregoing statement.

ARITHMETIC.—Numbers to one hundred. Arabic and Roman notation to one thousand. Review and extend the work



of all previous grades. To be ready for promotion to a grammar school, children should be able to add columns of figures to a total of 100 rapidly and accurately; to know the multiplication table to ten times ten so as to be able to give products instantly; to use all the common tables of denominate numbers in simple reductions; to find fractional parts of all numbers less than 100 which are multiples of the denominators of fractions to and including twelfths; and to add, subtract, multiply, and divide small fractions like  $\frac{1}{2}$ ,  $\frac{1}{4}$ , and  $\frac{1}{8}$ .

GEOGRAPHY. — Continue work of first half and review and extend work of all previous grades. Teach by observation as far as possible, and then by the use of pictures, as many bodies of land and water as is possible. Observe, draw, model, and describe.

NATURE STUDY. — Lessons as in the first half.

PHYSIOLOGY. — Circulation, respiration and digestion. As before avoid teaching too much, and make the instruction as practical as possible by relating each fact learned to some simple and easily followed law of health.

## GRAMMAR SCHOOLS.

### FOURTH YEAR.

READING. — Franklin Third Reader and supplementary reading of the same grade. For reading to pupils it is hoped that teachers will obtain from the city library and elsewhere many books from which to get selections not to be found in regular text books. Correlate history and geography with reading by the use of stories of heroes either real or mythological and by accounts of strange countries and unique productions.

SPELLING. — Words in common use, orally and in writing. By definition, or use in sentences, make sure

that pupils understand the meaning of all words given for a lesson. Make every written exercise a lesson in spelling. Select words for practice from all text books used, and for supplementary drill use authorized text books as follows: Worcester, first half to page 29; second half to page 47; Reed, first half to page 24; second half to page 38; Morse, first half to page 10; second half to page 30.

ARITHMETIC.—Numbers to 1000. Daily oral drill in numbers to 100, as in the primary schools. Written work with numbers usually small enough to be expressed by three figures, in addition, subtraction, multiplication, and division, no multiplier or divisor to be larger than 9. Use terms, sum, product, multiplier, etc., but do not require definitions. Give problems in dollars and cents, using the dollar sign and decimal point. Continue the drill of the primary school in easy reductions of denominate numbers. Teach thoroughly the reduction, addition, subtraction, multiplication, and division of the fractions,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{3}$ ,  $\frac{1}{6}$ ,  $\frac{1}{9}$ ,  $\frac{1}{12}$ , illustrating all processes by objects, but using the written expression from the first. Second half, continue and extend all work of the first half. Notation and numeration to 1,000,000. Multiplication with multipliers large enough to be expressed by two or three figures, and long division, no divisor larger than 25. Decimals to thousandth in addition and subtraction, and in multiplicands and dividends in multiplication and division.

LANGUAGE.—Teach the sentence as the unit of thought, its four kinds, and its division into subject and predicate. Have much oral work, and give such written exercises as shall review and extend knowledge of the proper use of capitals, punctuation marks, and abbrevia-

tions. Tarbell's and De Garmo's first books on language should be consulted for suggestions much fuller than can be given here. Continue the story telling and readings of previous grades, and extend the amount and range of selections for memorizing. Continue letter writing, both original and from dictation, using, however, in this grade, only the simplest forms. Second half, continue work of the first half, and for new work teach the use of plurals and possessives of nouns.

GEOGRAPHY.—The earth as a whole, with land and water forms; the air, winds, dew, rain, snow, etc. Teach by observation as far as possible, relating that which is beyond vision to that which has been observed as far as can be done, and using pictures to still further assist the imagination. Second half, the use of globes and maps and a brief general study of the hemispheres and their grand divisions, North America, the United States as a whole, and the New England and Middle States more in detail.

HISTORY.—As many stories should be read by the pupils, or told or read to them by the teacher, as time will permit, but the number of facts to be required for reproduction should be very few, probably not more than could be written on a page of foolscap, or told by a class in the time of a single recitation. These few, however, should be learned with the utmost exactness and thoroughness; they should be planned to form the basis of all future study of the history of the United States from Columbus to the end of the nineteenth century; should include a few dates like 1492, 1776, etc.,—a half dozen will do very well but these few should be so learned as to be recalled as automatically as the child would recall

his own name. In the recitation of facts intended to be mastered no mistakes should be tolerated; nine-tenths of the teaching, however, should not have the memorizing of facts, names and dates as any part of its object, but should aim to quicken interest, broaden vision, stimulate patriotism and develop character through appreciation of courage, loyalty and virtue as exemplified in the heroes of history. Use pictures, relics, etc., to increase interest as far as possible, and remember that whatever else is accomplished the lesson is a failure which does not leave the class with a desire for further study.

NATURE STUDY.—Continued study of plant life, emphasizing the changes from flower to fruit and seed; continued study of animals for recognition, habits, and adaptation of parts; second half, more detailed study of the plant and its parts, with conditions of germination and growth, such as need of air, light, warmth, moisture and proper soil; pebbles, sand and clay with reference to life history of rocks.

Writing, Drawing and Music as directed by the supervisors of these branches in this and succeeding grades. Sewing under the direction of the special teacher in this and the next two grades.

#### FIFTH YEAR.

READING.—Franklin Fourth Reader, and supplementary books. For suggestions see Miss Edmund's course for this year.

SPELLING.—As in the fourth year, with words for supplementary drill, first half to page 69 in Worcester; second half to page 93; in Morse first half to page 44;



second half to page 64; Reed, first half to page 56; second half to page 78.

ARITHMETIC. — Continue all the work of the previous year. Whatever else is omitted see that oral drill and rapid written work with small numbers are given prominent places on the programme. In written work give many examples and problems with small numbers, rather than a few with large numbers. Long division with divisors of not more than three figures. In addition to constant practice with fractions already learned, teach  $\frac{1}{3}$ ,  $\frac{1}{10}$ , and continue practice in the use of decimals and denominate numbers. In the use of the authorized text book omit all the examples involving long and tedious operations with large numbers; second half, continue work of the first half. Teach fractions to and including twenty-fourths. Teach least common multiple when needed as a means of finding the least common denominator of fractions, and factoring and cancellation when needed for practical use. Extend work of previous years in denominate numbers to include all simple reductions.

LANGUAGE. — Dictation, reproduction, narration work and letter writing continued. For new work teach the use of adjectives, with their comparisons, and pronouns. Second half continue work of first half with careful attention to the use of punctuation marks, capitals, etc., and complete the study of the use of the parts of speech not already learned as outlined in Tarbell's Lessons from page 156 to the end of the book.

GEOGRAPHY. — Complete the study of the groups of states which compose the United States, and of South America. Second half, teach of Europe, Asia, Africa, and



Oceanica, making the work simple, general and elementary, as would be suggested by the authorized text books.

HISTORY.—First, review the facts which were taught in the fourth year so thoroughly and constantly that no one of them shall escape. Second, add about as many new facts, dates, etc., as were mastered in the last year, and teach them with the same thoroughness and intensity as was then demanded. Cover the whole period of the history of civilized man in America, selecting the new matter of this year so as to fill out and supplement the exceedingly brief outline of the previous year, and relate our history to that of the world's whole past as far as such relation is natural and helpful. In teaching a few indispensable things be satisfied with nothing less than perfection, and for the rest and by far the most of the time have pupils read and enjoy the stories, which are the life of history, without attempting to burden them with the recollection of all they read. Correlate with geography, make and use maps, draw, use pictures, make collections, etc.

NATURE STUDY.—Study of trees, for recognition by differences in size, form, leaves, bark, etc.; study of one insect, as grasshopper, butterfly, or moth, as type; gather cocoons and note metamorphosis. Second half, study of plants and their growth continued, emphasizing roots and stems; of rock-forming minerals, as quartz, mica, feldspar, hornblende, etc. Note use as building stones

PHYSIOLOGY.—Book No. 1 of the Union series, as a reader, with such comment and instruction in this and succeeding grades as shall comply with the following law of this State: "Physiology and hygiene, which shall

include special instruction as to the effects of alcoholic drinks, stimulants, and narcotics on the human system, shall be taught as a regular branch of study to all pupils in schools supported by public money."

#### SIXTH YEAR.

READING. — Franklin Intermediate and supplementary books.

SPELLING. — As before correlate spelling with every subject taught. Make every written exercise a lesson in spelling, and for supplementary drill use Worcester, first half, to page 111; second half, to page 125; Morse, part III to page 73; second half to page 82; Reed, first, to page 92; second, to page 106.

ARITHMETIC. — Continue oral drill and rapid written work with small numbers. Review and extend work in fractions, but do not attempt to master the too difficult problems of the text books. Teach decimals more fully than before, and give many problems involving the use of United States money and the reduction of denominate numbers. Second half, continue all work of first half. Practice in compound numbers should include all common reductions, but should omit the addition, subtraction (with the exception of the subtraction of dates,) multiplication, and division of compound numbers as such, longitude and time, metric equivalents, etc.

LANGUAGE AND GRAMMAR. — First half, (a) Language: — A careful review of the work of previous years, as suggested by the first fourteen pages of the authorized text book. Suggest and provide abundance of good selections of both poetry and prose for pupils' reading in this

and all higher grades. Draw liberally on the Public Library. See that at least one brief selection or memory gem is memorized each month.

(b) Grammar. — (1) The analytic study of the sentence, subject, and predicate, essential and complete; (2) the classification of words *according to their use in sentences*, to include nouns and pronouns. (Southworth and Goddard, pp. 77-98).

Second half, (a) Language. — Review and extend the knowledge and practice of letter writing, including the heading, address, salutation, body, complimentary ending, signature, and superscription, as suggested in the text book, pages 14 to 36.

(b) Grammar. — The classification of words continued to include all parts of speech not already studied (pp. 98-126).

GEOGRAPHY. — Mathematical, physical, and political. Geography of the earth as a whole, with a general study of the hemispheres, as outlined in the first 26 pages of Butler's Complete Geography. Second half, North America, the United States as a whole, and the New England and Middle States in detail.

HISTORY — Treat the work of the fourth and fifth years in history exactly as the teacher of the fifth year was instructed to treat that of the year preceding her own, and make a few additions in accordance with the plan and in the spirit heretofore suggested.

NATURE STUDY. — Study of trees continued. In spring emphasize clusters of flowers, maple, elm, horse chestnut, etc., and in fall tree fruits, and the dispersion of seeds. Study of birds, grouping according to habits; e. g., aerial,

perchers; terrestrial, scratchers; aquatic, swimmers, and the adaptation of parts to these habits.

PHYSIOLOGY. — Book No. 2 of the Union series, as a reading book, with comment and instruction as before.

#### SEVENTH YEAR.

READING. — Franklin Intermediate and supplementary readers.

SPELLING. — Work of the sixth year continued. For supplementary drill use Worcester, first half to page 135; second half to page 145; Morse, first half to page 91; second to page 112; Reed, first to page 118; second to page 128.

ARITHMETIC. — Review constantly the work of all preceding years, but especially the work in fractions and denominate numbers. For advance work take up percentage, with applications to profit and loss, insurance, brokerage, taxes, etc. Second half, to work of first half add interest, simple and compound, with applications to promissory notes and discounts at banks.

LANGUAGE AND GRAMMAR. — First half, (a) Language: — To the letter writing, dictation, and reproduction exercises of the previous year add narrative writing, with careful attention to capitals, punctuation, and paragraphing as before.

(b) Grammar. — Sentence building; the base of a sentence, with modifiers; sentence analysis (pp. 126-156).

Second half (a) Language. — The work of the first half continued and extended. It is of far more importance to any pupil that he should be able to write a properly arranged and well-worded letter or express himself tersely



and clearly in orderly narration than that he should know much of technical grammar, and excellence in the latter should never be sought at the expense of the former.

(b) Grammar. — Structure of sentences continued, reviewing and extending work of past years. Begin the classification of the parts of speech according to *kind, form, and use*; nouns (pp. 156-183).

GEOGRAPHY. — Atlantic, Gulf, and Central States: second half, Rocky Mountain and Pacific States and Territories, British America, Mexico, the Central American Republic, and West Indies.

HISTORY. — Discovery, exploration, and conquest of America to date of first permanent English settlement in greater detail than before, but with constant use of the outline already learned, using the order of the authorized text books. Relate the history of this country as far as possible to the European, and especially to the English history which preceded it. Second half the settlement of North America to the beginning of the French and Indian War.

NATURE STUDY. — Grains and grasses in the fall; rose family in spring. For animal study, specialize on some typical family as, e. g., for marine animals, the oyster or clam, the lobster or crab. Compare with vertebrates (fish). For work in minerals, the study of some common metals and their ores, as iron, copper, etc.

PHYSIOLOGY — First half, food and digestion; second half, the blood, blood vessels and circulation. General facts relating to laws of health are to be emphasized rather than minor details of structure. Teach effects of the use of alcohol as required by law.



## EIGHTH YEAR.

READING. — New Fifth Reader and supplementary books.

SPELLING. — Relate spelling to all other subjects taught as in previous years, and use the authorized text books for additional drill. Worcester, first half to page 155; second half to page 163; Morse, first half to page 120; second half to page 128; Reed, first half to page 140; second half to page 153.

ARITHMETIC. — Review the work of all previous years, with further applications of the principles of percentage and interest to stocks and bonds, exchange, etc., and add partnership, ratio, and proportion. Of subjects treated in the authorized text book omit equation of payments, problems in exchange involving interest-bearing drafts, and the more complicated problems in partnership. Second half, involution, evolution, to include second and third roots, and mensuration of plane surfaces to and including circles.

LANGUAGE AND GRAMMAR. — First half (*a*) Language — Letter writing, reproduction exercises, and narrative writing continued, with careful attention to capitals, punctuation, and paragraphing as before. Relate language to all subjects studied by giving the preference in the choice of topics to those which are suggested by the study of history, geography, etc.

(*b*) Grammar. — (1) Analysis and synthesis of sentences continued; (2) classification of words as to kinds, forms and uses continued to include pronouns and adjectives. (pp. 183-219)

Second half, (*a*) Language: — To exercises previously suggested add descriptive writing with subjects chosen as

in the first half. Do not forget the directions given at the beginning of the course that at least one selection each month should be carefully memorized by every pupil.

(b) Grammar:—To a constant review of the work of all past years add the study of verbs as to kinds, forms, uses, etc. (pp. 219-263.)

GEOGRAPHY.—South America and Europe. Second half, Asia, Africa, Oceanica, with a general study of the principal commercial routes of the world, and of the chief exports of leading commercial ports.

HISTORY.—The conquest of Canada, and the development of the English colonies in America into the United States to the time of the Treaty of Paris in 1783. Second half, the establishment, growth and history of the Union under the Constitution to the administration of Andrew Jackson, 1829.

PHYSIOLOGY.—The study of the human body as outlined in the authorized text book, Union series book 3, to include the respiratory system, the bones, joints and muscles. Second half, study of the subject as outlined in the text book completed.

NATURE STUDY.—Birds, from observation, for recognition, knowledge of the time of arrival and departure of those which are migratory, habits, food, nesting, etc. Pupils ought at the end of the year to know from personal observation a dozen kinds. (Several pupils saw and learned to recognize 80 or more varieties in Lowell and its immediate vicinity last year.)

#### NINTH YEAR.

READING,—New Fifth Reader, Masterpieces of American Literature, and other supplementary books. Read and

study as literature Irving's *Rip Van Winkle* and Longfellow's *Evangeline* in the first half, and Whittier's *Snow-Bound*, Hawthorne's *Great Stone Face*, and Lowell's *Vision of Sir Launfal* in the second.

SPELLING. — As in previous years, with supplementary drill on words found in the last part of Worcester's *Speller* in the first half, and in the whole book in the last half; Morse, first half to page 128; second, complete and review; Reed, finish and review.

ARITHMETIC. — First half a review of fundamental processes with numbers both integral and fractional, factoring, the finding of divisors and multiples, percentage, and so much of geometry as is found in the *Werner Arithmetic*, Book III, to page 140; second half, percentage continued with applications to discounts, interest, stocks, etc., ratio and proportion, powers and roots, denominate numbers, etc., with general review of the whole subject of arithmetic and so much of geometry as is given in the authorized text book to page 256. Metrics at the option of the teacher.

ALGEBRA. — Work in algebra may follow the order of the authorized text book on algebra, or of the arithmetic. In the latter case algebraic fractions may be omitted in the first half of the year, at the option of the teacher, and only so much work is required in the whole year as will be equivalent to the completion of the subject to page 71 in *Wentworth's "First Steps in Algebra."* The algebra may be taken with the arithmetic or alternated with it, but should not receive more than two-fifths of the time allotted to mathematics in the ninth year.

LANGUAGE AND GRAMMAR.—First half, (a) Language.—Continue every form of exercise hitherto suggested, with special attention to paragraphing and to discrimination in the choice of words, synonyms, variety of expressing, etc. In letter writing add to familiar and business letters, formal notes of invitation and answers to the same.

(b) Grammar.—No division of work into first half and second half is attempted. In the whole year review and extend the work of previous years.

GEOGRAPHY.—Give special attention to local geography and that of the State, and review briefly the mathematical, physical and political geography of the earth as a whole, and of the United States and other political divisions of North America. Omit geographical study in the last half of the year.

HISTORY.—First half, complete the history of the United States to date. Second half, review the whole subject.

BOOK-KEEPING.—One-half the time allotted to penmanship may be devoted to book-keeping.

NATURE STUDY.—Trees from observation. Pupils ought to be able at the end of the year to locate and describe forty varieties which they have seen in or near the city. Collections of woods are recommended.

PHYSICS (optional).—As outlined in the authorized text book.

## HIGH SCHOOL.

CLASSICAL.	COLLEGE.	TECHNOLOGY.	MODERN LANGUAGE.
*Latin. *Algebra. *English I. *Phys. Geog. <i>hf</i> .	*Latin. *Algebra. *English I. *Physics <i>hf</i> .	*Latin or Man. Train. *Algebra. *English I. *Phys. Geog. <i>hf</i> .	*French I. *Algebra. *English I. *Phys. Geog. <i>hf</i> .
Cæsar or French I. Geometry. Physics. *Hist. and Eng. II.	*Cæsar. *Geometry. Gr. I or French I. *Hist. and Eng. II. (Select 4.)	Cæsar or Man. Train. *Geometry. *French I. *Hist. and Eng. II. (Select 4.)	French II. Geometry. *Physics. *Hist. and Eng. II.
Cicero or Fr. II or I. *Hist. and Eng. III. Arith. <i>hf</i> Physiology <i>hf</i> . † Astron. and Geol. Chem. <i>hf</i> . or Chem. I. German I.	*Cicero. *English III <i>hf</i> . *Coll. French <i>hf</i> . *Coll. Math. Gr. II or Fr. II. Coll. Physics. (Select 4 or 5.)	*Coll. French II. *English III <i>hf</i> . *Coll. Math. German I. *History IV. (Select 3½.)	French III. *Hist. and Eng. III. Physiology <i>hf</i> . † Astron. and Geol. German I. Chem. I or Chem. <i>hf</i> . Arithmetic <i>hf</i> .
Virgil, or French II or French III. *English IV. *Hist. IV. Botany <i>hf</i> . German I or II. Chemistry II.	*Virgil. *English IV. *Gr. and R. Hist. *Coll. French II. Gr. III or Fr. III. German I. Geom. and Trig. (Select 4 or 5.)	German I or II. *English IV Geom. and Trig. Physics I or Coll. Physics. Chemistry I. (Select 4.)	German I or II. *English IV. History IV. Chemistry I or II. Botany <i>hf</i> .

\* Prescribed.

† Astronomy and Geology may be taken the fourth year instead of the third year.



MANUAL TRAINING	COMMERCIAL.	TEXTILE SCHOOL.	FIVE YEARS COLLEGE.
*Man. Train. I. *Algebra. *English I. *Phys Geog. <i>hf.</i>	*Bookkeeping and Correspondence. *Alg. and Mental Arith. *English I. *Com. Geog. <i>hf.</i>	Latin or French or Man. Train. *Algebra. *English I. *Phys. Geog. <i>hf.</i>	FIRST YEAR.  Latin. Algebra. • English. Physics. <i>hf.</i>
*Man. Train. II. Geometry. Physics. French I. *Hist. and Eng. II.	*Bookkeeping. *Com. Law and Arith. French I. Geometry. Physics. *History and Eng. II (Select 4.)	Cæsar or French II or Man. Train. *Geometry. *Physics. *Hist. and Eng. II (Select 4.)	SECOND YEAR  Cæsar. Greek. His. and Eng. II. Geometry.
*Man. Train. III. *Hist. and Eng. III. Physiology <i>hf.</i> French I or II. †Astron. and Geol. German I. Chemistry I. Arith. <i>hf.</i>	*Stenog. and Type-writing. *Hist. and Eng. III. Physiology <i>hf.</i> †Astron. and Geol. French II, or I or German I. Chemistry <i>hf.</i> (Given Sept., 1902.)	*Chemistry I. *Coll. Math. French III or I or German I. *English III <i>hf.</i> (Select 3½.)	THIRD YEAR.  Cicero. Greek II. English III <i>hf.</i> Coll. Fr. I. <i>hf.</i>
*Man. Train. IV. French II or III. German I or II. *English IV. Geom. and Trig. Botany <i>hf.</i> Chemistry II. History IV.	*Stenog. and Type-writing. French II, III. *English IV. Hist. IV. German I or II. *Economics Chemistry II. (Select 4.) (Given Sept., 1903.)	*English IV. *Coll. Physics. Fr. II or German I, II or I. Chemistry II. History IV. Geom. and Trig. (Select 4.)	FOURTH YEAR.  Review Cicero. Review Greek II. English IV. Gr. and R. Hist. Coll. Math.
			FIFTH YEAR.  Virgil. Greek III. Coll. Physics. Coll. French II. (All prescribed.)

\* Prescribed.

† Astronomy and Geology may be taken the fourth year instead of the third year.

#### Minimum number of subjects required for a diploma.

FIRST YEAR — Three and one-half subjects in all courses.

SECOND YEAR — Three subjects in all courses except the Commercial Course, in which four must be taken.

THIRD YEAR — Three and one-half subjects in all courses.

FOURTH YEAR — Three and one-half subjects in all courses except in the Commercial Course, in which four must be taken.

## NOTES ON HIGH SCHOOL COURSES OF STUDY.

Parents of pupils who intend to enter the High School are requested to consider the forgoing courses of study with great care, as changes from one course to another during the year are impracticable, and a change after the first year may cause the pupil to lose time.

The Master and Teachers of the school will gladly give parents and pupils any assistance and advice possible in the selection of studies. In order to give such aid they will be present at the High School Hall at eight o'clock Thursday evening, September 5, 1901, to give any necessary advice and to explain the courses of study.

It is essential that a blank for pupils who expect to enter the school be filled in, signed, and sent to the Master by September 6th. Those who come from other High Schools and expect to enter with advanced standing should select their courses for the first half year and send the list to the Master not later than June 30. Blanks may be obtained of the Master.

In each course certain studies are prescribed, but pupils may make up the remainder of the required studies from a wide range of elective subjects. The prescribed studies in each course are starred. Satisfactory completion of three years work in any course will entitle the pupil to a three years diploma. Satisfactory completion of four years work in any course will entitle the pupil to a four years' diploma. Those who satisfactorily complete the five years College Course will be entitled to a five years' diploma.

The Classical Course is intended for students who do not intend to enter College, but who desire the best general education that the High School furnishes.

The College Preparatory Course will fit students for any American College and may be completed in four or five years. It is necessarily difficult. The student is advised to take five years for preparation for Radcliffe or Harvard College.

The Modern Language Course is similar to the Classical Course, except that a modern foreign language will be taken instead of Latin. In educational value it is practically equivalent to the Classical Course.

The Manual Training Course offers a combination of the ordinary High School studies with practical work in the use of tools

and machines, together with a complete course in mechanical drawing, technical drafting, and free-hand drawing, and allows the student to specialize somewhat in mechanical work. It also furnishes an excellent general training. Candidates for the Massachusetts Institute of Technology and Worcester Polytechnic School should not take this course for more than two years as manual training counts only as an elective in admission requirements.

**The Commercial Course** is designed for those who expect to engage in business, and has been arranged so that the pupil will receive the same amount of mental training and acquire as much mental power as in any other course. It is not less educational than other courses and must not be selected with the conviction that it is "easy."

In preparation for the Normal School, select either the Classical Course or the Modern Language Course, preferably the former. For Medical Schools and some of the smaller colleges, select the Classical Course. For other Colleges select the College Course. In this course French and German may be substituted for Greek in preparation for some colleges.

For the Lawrence Scientific School, select the College Course, or the Classical Course with Manual Training in place of Physical Geography.

By an examination of the courses of study, it will be seen that a minimum number of subjects is required in each year of each course for a diploma. But in preparing for higher institutions more than the minimum number of subjects, depending on the requirements of the college, will need to be taken. At the beginning of his second year, the pupil, therefore, should decide upon the college or school for which he wishes to prepare and should select his subjects to fit the requirements. He should make himself familiar with the requirements and also obtain the advice of the Teachers and Master of the school in selecting his subjects. Candidates for Smith, Vassar, Wellesley, and Mt. Holyoke should send applications for admission as early as their third year.

Unprepared work in Music, Calisthenics, Elocution, Ethics, and Military Drill is required.

Classes will not be formed in Electives for less than twenty scholars in the first or second year, fifteen in the third year, and twelve in the fourth year.

# ROLL OF TEACHERS.

GIVING NAME, GRADE, RESIDENCE, DATE OF ELECTION, AND SALARY.

## HIGH SCHOOL.

Kirk and Anne Streets.

CYRUS W. IRISH, Head Master, 91 Fort Hill Avenue....	1885	\$2500
FRANK B. SHERBURNE, Sub Master, 58 Dover Street, <i>Greek and Latin</i> .....	1883	2200
MARY A. WEBSTER, 45 Varney Street, <i>English and Math-</i> <i>ematics</i> .....	1859	1000
CHARLOTTE E. DRAPER, 47 Belmont Avenue, <i>Cæsar, As-</i> <i>tronomy, Geology and Geometry</i> .....	1870	800
ALICE J. CHASE, 263 Fairmount Street, <i>German and</i> <i>English</i> .....	1877	800
SUSIE L. D. WATSON, 390 East Merrimack, Street, <i>Civil</i> <i>Government Arithmetic and Cæsar</i> .....	1885	800
ADELAIDE BAKER, 136 Myrtle Street, <i>French</i> .....	1885	800
JENNIE L. ALLEN, 947 Middlesex Street, <i>Physics and</i> <i>Physiology</i> .....	1885	800
EMMA L. BRADLEY, 485 Westford Street, <i>French</i> .....	1890	800
GERTRUDE A. RODLIFF, Chelmsford Centre, Mass., <i>English</i> ... ..	1890	800
MARIETTA CASSIDY, 4 Fifth Avenue, <i>Latin and Algebra</i>	1890	800
GEORGIANA F. VINTON, 52 Fourth Street, <i>History, Eng-</i> <i>lish and Algebra</i> .....	1872	800



GRACE M. GOODHUE, 120 School Street, <i>History, Ancient History, Latin, and Algebra</i> .....	1893	800
BESSIE E. HUNTOON, 64 Warwick Street, <i>French</i> .....	1894	800
GRACE WARD, 279 Chelmsford Street, <i>Physics and Physical Geography</i> .....	1895	800
MARY E. O'CONNOR, 9 Shedd Street, <i>History and Algebra</i> .....	1896	800
CARL D. BURTT, 72 Fort Hill Avenue, <i>Greek, Algebra and French</i> .....	1895	1500
FREDERICK R. WOODWARD, 11 Simpson Street, <i>Mathematics and Physics</i> .....	1895	1500
PERCIVAL G. BARNARD, 68 Harvard Street, <i>English, Commercial Geography and Bookkeeping</i> .....	1897	900
HELEN M. LAMBERT, 283 Pawtucket Street, <i>Chemistry, and Physiology</i> .....	1897	800
JOHN A. DONOVAN, 256 Branch Street, <i>History, English, Algebra, Physical Geography</i> .....	1898	800
THOS. F. FISHER, 297 East Merrimack Street, <i>Manual Training</i> .....	1898	1200
ANNE M. DAY, 278 East Merrimack Street, <i>English</i> ....	1899	700
HELEN BUTTRICK, 307 Wilder Street, <i>English and Botany</i> .	1899	700
WILLARD E. EVERETT, 12 Belmont Street, <i>History and English</i> .....	1899	800
FRED W. PUTNAM, 69 Third Street, <i>Manual Training</i> ...	1899	1000
MARY HUSSEY, 86 Thorndike Street, <i>Calisthenics, Elocution</i> .....	1899	500
EDWARD S. COLTON, JR., 21 Huntington Street, <i>Bookkeeping</i> .....	1900	1200
MARY G. STEVENS, East Merrimack Street, <i>Tewksbury, English, Arithmetic and Algebra</i> .....	1900	800

## BARTLETT GRAMMAR SCHOOL.

Wannalancit Street.

CYRUS A. DURGIN, Master, 117 Bowers Street.....	1891	\$2000
BELLE A. PRESCOTT, 9th year, 68 Mt. Washington Street..	1878	600
CHARLOTTE M. MURKLAND, 9th year, 117 Bowers Street..	1898	600
BELLE F. BATCHELDER, 8th year, 66 Arlington Street....	1883	600
BLANCHE A. CHENEY, 8th year, 34 Arlington Street.....	1896	600



AMY L. TUCKE, 7th year, 111 Butterfield Street.....	1880	600
MARIA W. ROBERTS, 7th year, 167 School Street.....	1875	600
MARY E. WALSH, 6th year, 9 Corner Street.....	1897	600
CARRIE E. ERSKINE, 6th year, 138 Mt. Vernon Street.....	1893	600
MARY I. HOWE, 5th year, 84 Methuen Street.....	1873	600
BERTHA J. CURTIS, 5th year, 90 Chestnut Street.....	1899	600
ALICE D. SUNBURY, 4th year, 1 Spaulding Street.....	1899	500
FRANCES CLARK, 4th year, 25 Mt. Vernon Street.....	1899	600

## BARTLETT PRIMARY SCHOOL.

VIOLA G. BURR, 3rd year, 1 Spaulding Street.....	1899	\$ 600
FRANCES M. SPOONER, 2nd year, 90 Chestnut Street.....	1898	600
GRACE B. ALVORD, 1st year, 284 Mammoth Road.....	1896	600

## MORRILL SCHOOL.

Common and Adams Streets.

NELLIE M. BROWN, Principal, 3rd year, 426 Fletcher Street.....	1865	\$ 650
ANNIE M. COURTNEY, 2nd year, 196 Pawtucket Street.....	1887	600
AGNES T. COURTNEY, 1st year, 11 Marsh Street.....	1891	600
CHARLOTTE E. BROWN, 1st year, 426 Fletcher Street.....	1870	600
ANNIE S. MURPHY, Substitute 1st year, 11 Carter Place...		
CORRINA G. COVER, Substitute 3rd year, 16 Lombard Street.....		

## CROSS STREET SCHOOL.

Cross Street, Between Fletcher and Mt. Vernon Streets.

SARAH E. SCALES, Principal, 3rd year, 28 Ralph Street...	1866	\$ 650
ELLEN M. WHITE, 2nd year, 249 Branch Street.....	1863	600
A. GERTRUDE STILES, 1st and 2nd years, 72 Varney Street	1895	600
KATHERINE KELLY, 1st year, 69 Arlington Street.....	1893	600

## BUTLER GRAMMAR SCHOOL.

Gorham Street.

CORNELIUS F. CALLAHAN, Master, 197 Appleton Street...	1884	\$2000
NELLIE F. MURPHY, 9th year, 85 Sherman Street.....	1878	600

# ROLL OF TEACHERS.

99

MARGARET T. MCCARTHY, 9th year, 647 Market Street...	1890	600
MARY I. DONLAN, 8th year, 455 High Street.....	1890	600
ANASTASIA C. CORBETT, 8th year, 32 Highland Street....	1887	600
MARY E. LANE, 7th year, Billerica.....	1894	600
DELIA T. BRADY, 7th year, 183 Chapel Street.....	1883	600
KATE E. KELLEY, 6th year, 129 Moore Street.....	1883	600
AGNES M. FOLEY, 6th year, 37 Newhall Street .....	1887	600
ALICE C. O'BRIEN, 5th and 6th years, 24 Ames Street....	1897	600
MARY L. MCSORLEY, 5th year, 30 Ash Street.....	1879	600
JENNIE S. NOBLE, 5th year, 21 Carter Street.....	1894	600
GRACE G. MARREN, 5th year, 56 Butterfield Street.....	1896	600
SADIE TULLY, 4th year, 105 Westford Street.....	1897	600
HELEN E. GOOKIN, 4th year, Wamesit.....	1897	600
THERESE F. DONOGHUE, 4th year, 22 Royal Street.....	1897	600
KATHERINE M. USHER, 4th year, 465 Parker Street....	1895	600
JOSIE F. HOAR, temporary, 87 Mt. Washington Street....		

## LYON STREET SCHOOL.

Corner Lyon and Central Streets.

ALICE T. LEE, Principal, 3rd year, 12 South Walker Street	1878	\$ 650
ANNABEL COSTELLO, 2nd year, 293 Nesmith Street.....	1888	600
MARY J. MCCARRY, 1st year, 58 Elm Street.....	1881	600
NELLIE A. HUNT, 1st year, 68 Elm Street.....	1884	600

## CARTER STREET SCHOOL.

Carter Street.

ISABELLA T. VJNALL, Principal 3rd year, 1 Glidden Avenue .....	1873	\$ 650
MARGARET J. CONNORS, 2nd year, 48 Walnut Street.....	1894	600
KATHERINE F. BRADY, 2nd year, 173 Chapel Street.....	1897	600
MARY V. JOHNSON, 1st year, 101-1 Prince Street.....	1897	600
MARGARET J. CRONIN, 1st year, 228 Plain Street.....	1900	430
ELIZABETH A. PAGE, Assistant, 647 Market Street		

## AGAWAM STREET SCHOOL.

Agawam and Barrington Streets.

MARY A. FAY, Principal, 3rd year, 115 Stackpole Street..	1889	\$ 650
SUSAN G. NEILON, 2nd year, 165 Andrews Street.....	1895	600
ROSE DONNELLY, 1st year, 15 Hudson Street.....	1896	600

## LONDON STREET SCHOOL.

Corner of London and West Streets.

LIZZIE R. MAGUIRE, Principal, 3rd year, 112 Pleasant Street.....	1884	\$ 650
ALICE A. MASTERSON, 1st and 2nd years, 32 June Street...	1892	600
MINNIE F. HILL, 1st and 2nd years, 279 Thorndike Street.	1887	600

## WEED STREET SCHOOL.

Corner of Weed and Gorham Streets.

MARY B. MCGOVERN, Principal, 3rd year, 31 Pearl Street.	1886	\$ 650
LILLA M. MCEVOY, 2nd year, 181 Moore Street. ....	1893	600
MARY J. CARMICHAEL, 1st year, 27 Ellsworth Street... ..	1893	600

## LOWELL TRAINING SCHOOL.

Charles and Lawrence Streets.

(Telephone 531—3.)

GERTRUDE EDMUND, Principal, 74 Huntington Street ....	1895	\$2000
MABEL W. EWINGS, 127 Stackpole Street.....	1891	900
ADDIE B. MERRILL, 981 Bridge Street.....	1892	900
HELEN M. SHEAN, 11 Fort Hill Avenue .....	1891	800
MARGARET C. FOX, 9th year, 8 Eddy Street.....	1900	500
GRACE DELANEY, 2nd year, 791 Broadway Street.....	1900	500
MABEL H. ELA, 407 Walker Street.. ..	1900	500
MARY A. SNOW, temporary, 89 School Street.....		
ANNA T. COBURN, 74 Boylston Street.....		
MARY G. COURTNEY, 24 Lagrange Street .....		
NELLIE J. CUMMINGS, 75 Chestnut Street.....		
ANNIE V. DONOGHUE, 104 Lawrence Street.....		
ESTHER M. DOWNING, 674 Broadway Street.....		
KATHERINE G. EGAN, 264 Appleton Street.....		
MARGARET JAMIESON, 112 Shaw Street.....		
EVA G. MAGOON, 215 Stackpole Street.....		
MARGARET G. McDONALD, 264 Appleton Street .....		
ESSIE E. ROCHE, 1835 Middlesex Street.....		

JENNIE E. ROGERS, 206 Wilder Street.....	
HELEN D. SWAIN, 93 Mt. Vernon Street.....	
ADELAIDE E. SWEETSIR, 276 Westford Street.....	
SARAH THURLOW, 392 Westford Street .....	
ETHEL W. WHITCOMB, 2 Belmont Street .....	

CENTRAL STREET SCHOOL.

Central Street, Opposite Hudson Street.

ELIZA COWLEY, Principal, 3rd year, 420 Lawrence Street..	1857	\$ 650
ELIZABETH G. LAWLER, 2nd and 3rd years, 260 High..		
Street.....	1897	600
KATHERINE J. LAWLER, 1st and 2nd years, 260 High		
Street .....	1885	600
HELEN A. DRURY, 1st year, 44 Walnut Street.....	1898	600

AMES STREET SCHOOL.

Corner Lawrence and Ames Streets.

AMANDA M. HADLEY, Principal, 3rd year, 89 Washington		
Street.....	1870	\$ 650
KATE F. MURPHY, 2nd year, 1 Carter Place.....	1885	600
MARY E. DREW, 1st and 2nd years, 36 Wamesit Street....	1868	600
LIZZIE M. HADLEY 1st year, 31 Royal Street.....	1869	600

EDSON GRAMMAR SCHOOL.

Highland Street.

C. W. BURBANK, Master, 130 Bowers Street.....	1872	\$2000
FRANCES M. WEBSTER, 9th year, 45 Varney Street.....	1873	600
ROSALIE T. BURNS, 8th year, Rogers Street, Corner But-		
man Road .....	1878	600
ANNIE E. DONOVAN, 7th year, 26 Madison Street.....	1895	600
MARY F. WARD, 7th year, 220 Fletcher Street.....	1893	600
KATE J. HAYES, 6th year, 15 Floyd Street.....	1879	600
MARGIE F. MARREN, 6th year, 420 Fletcher Street.....	1886	600
SARAH J. CROSBY, 5th and 6th years, 12 Simpson Place...	1868	600
BERTHA M. ROWLANDSON, 5th year, 11 Holyrood Avenue..	1891	600



MARY A. BALCH 5th year, 242 Appleton Street .....	1865	450
JULIA B. RIORDAN, 4th year, 57 Mt. Vernon Street.....	1897	600
BERTHA MCCUE, 4th year, 217 Appleton Street.....	1900	600

## CHARLES STREET SCHOOL.

Charles Street, between Gorham and Chapel Streets.

ALICE T. OWENS, Principal, 3rd year, 4 Belmont Street...	1878	\$ 650
ELLA E. GARDNER, 2nd year, 109 Mansur Street.....	1871	600
ELLEN A. O'CONNELL, 1st year, 48 Mead Street.....	1896	600
ELIZABETH T. MOORE, Assistant, 416 Walker Street.....		

## COTTAGE STREET SCHOOL.

Corner Cottage and Chapel Streets.

ROSE E. McVEY, Principal, 3rd year, 46 Linden Street...	1887	\$ 650
LIZZIE A. MOLLOY, 1st and 2nd years, 239 Gorham Street.	1887	600
MARGARET M. HARRAHAN, 1st and 2nd years, 32 Marshall Street.....	1882	600

## ELIOT SCHOOL.

Corner Favor and Summer Streets.

ELLEN A. STILLINGS, Principal, 1st and 2nd years, 24 Bellevue Street.....	1875	\$ 650
ELLEN A. CORBETT, 3rd year, 32 Highland Street.....	1878	600
NELLIE T. O'GRADY, 2nd year, 73 Newhall Street.....	1881	600
LOYOLA McCANN, 1st year, 17 Wentworth Avenue.....	1883	600

## GREEN GRAMMAR SCHOOL.

Merrimack Street.

A. L. BACHELLER, Master, 43 Arlington Street.....	1874	\$2000
RUTH B. BAILEY, 9th year, 514 Moody Street .....	1871	600
CLARA A. HANAFORD, 8th year, 1 Spaulding Street.....	1869	600
ESTHER G. DONLAN, 8th year, 455 High Street.....	1897	600
LIZZIE A. NOLAN, 7th year, 301 Pawtucket Street.....	1876	600
JENNIE E. Fay, 6th year, 115 Stackpole Street.....	1891	600



# ROLL OF TEACHERS.

103

MARY M. KEARNEY, 6th year, 94 Andrews Street.....	1895	600
LENA A. GOOKIN, 5th year, 20 Walden Street.....	1880	600
KATE F. MCCARTHY, 5th year, 647 Market Street.....	1889	600
ELLA J. CARLETON, 4th year, 1072 Bridge Street.....	1882	600
ANNIE T. DELAY, 4th year, 87 Mt. Washington Street...	1900	450
SADIE F. MCCORT, Temporary, 397 Worthen Street.....		

## KIRK STREET SCHOOL.

Corner Kirk and Lee Streets.

ELIZA A. DAVIS, Principal, 2nd and 3rd years, 100 Canton Street .....	1881	\$ 625
LAURA H. PALMER, 1st and 2nd years, 35 Thirteenth Street	1882	600

## CABOT STREET SCHOOL.-

Corner Cabot and Ford Streets.

KATHERINE T. LENNON, Principal, 3rd year, 144 School Street .....	1885	\$ 650
MARY J. MURPHY, 2nd year, 112 Jefferson Street.. . .	1887	600
MARY T. WHELLEY, 1st year, 1 Fenwick Street .....	1897	600
ANNIE J. DEVINE, 1st year, Temporary, 110 Carlisle Street.		450
HELEN J. O'HEARN, 649 Westford Street.....	1900	

## CHEEVER STREET SCHOOL.

Cheever Street.

IDA J. CLARK, Principal, 1st year, 118 Bartlett Street.....	1887	\$ 650
MARY E. MEEHAN, 2nd and 3rd years, 215 Worthen Street	1891	600
ANNA A. SARGENT, 1st year, 223 Liberty Street.....	1864	600

## WORTHEN STREET SCHOOL.

Worthen Street, between Market Street and Broadway.

MARY J. ALGER, Principal, 1st year, 74 Branch Street...	1868	\$ 650
ESTHER V. GREEN, 2nd year, 674 Broadway.....	1889	600
HARRIET E. WHEELER, 148 Pleasant Street.....	1900	450
MARY R. MARREN, 3rd year, 420 Fletcher Street .....	1890	600
JULIA A. KENNEY, Temporary, 1st year, 99 Washington Street .....		

## HIGHLAND GRAMMAR SCHOOL.

(Telephone 729 — 2)

Pine Street.

CHARLES W. MOREY, Master, 14 Belmont Street.....	1880	\$2000
FLORA I. MOFFITT, 9th year, 34 Columbus ave.....	1887	600
MARY F. FOSS, 9th year, 215 Stevens Street.....	1891	600
ABBIE F. WOODWARD, 8th year, 157 Dartmouth St.....	1869	600
ESTELLE L. WHITNEY, 8th year, 13 Oakland Street.....	1885	600
LEONORA K. BATTLES, 7th year, 240 Gibson Street.....	1895	600
NELLIE A. COBURN, 7th year, 86 Royal Street.....	1886	600
LUELLA A. WARDWELL, 6th year, 33 Dover Street.....	1870	600
MINNIE C. GRAY, 6th year, 106 Liberty Street.....	1890	600
FANNIE M. CLARK, 5th year, 33 Dover Street.....	1874	600
CARRIE M. SPRAGUE, 4th year, 240 Gibson Street.....	1890	600
GRACE R. SANDERS, 4th year, 67 South Loring Street....	1897	600
LULU TURNER, 5th year, 24 Bellevue Street.....	1900	450
MARGARET F. SPEAR, Temporary, Westford, cor. Belmont Street .....		

## HIGHLAND ANNEX.

At Franklin School.

ARVILLA L. READER, 4th year, 216 Appleton Street.....	1871	\$ 600
GRACE F. WARD, 5th year, 6 Appleton Place.....	1893	600
ADDIE E. EDWARDS, 550 Westford Street.....	1900	450
ETTA G. BURNS, 6th year, Temporary, 154 Perry Street..		

## FRANKLIN SCHOOL.

Corner Branch and Middlesex Street.

SARAH C. FISKE, Principal, 3d year, 246 Appleton St....	1866	\$ 650
LIZZIE S. LOWE, 2nd year, 13 Nichols Street.....	1857	600
MARION J. STEVENSON, 2nd year, 63 Princeton Street....	1878	600
KATE G. JONES, 1st year, 119 Andover Street... ..	1880	600

## PINE STREET SCHOOL.

Corner Pine and Gibson Streets..

CARRIE J. BAILEY, Principal, 2nd and 3rd years, 16 Loring Street .....	1884	\$ 625
GRACE I. WASHBURN, 1st year, 15 Loring Street.....	1897	600

## DOVER STREET.

Dover Street, Between Middlesex and Grove Streets.

CLARA B. HORNE, Principal, 3rd year, 87 South Highland Street .....	1877	\$ 650
CLEMENTINE H. BOWERS, 2nd year, 18 Loring Street.....	1876	600
BERTHA GARDNER, 1st year, 32 Robbins Street.....	1887	600

## MIDDLESEX VILLAGE SCHOOL.

HARRIET F. WAKEFIELD, Principal, 2 Loring Street.....	1889	\$ 650
GERTRUDE C. RING, 2nd year, 35 Cornell Street.....	1898	600
MAUD E. GREEN, 1st year, 238 E. Merrimack Street.....	1900	450

## POWELL STREET SCHOOL.

Powell Street, near Liberty Street.

VIOLA A. HAMBLETT, Principal, 1st and 2nd years 463 School Street.....	1876	\$ 625
ELLEN J. PIPER, 2nd and 3rd years, 55 Coburn Avenue....	1894	600

## ABRAHAM LINCOLN SCHOOL.

Chelmsford Street.

JAMES L. MELLEN, Master, 74 Pentucket Avenue.....	1893	\$1900
MARGARET M. SPARKS, 9th year, 11 Fort Hill Avenue....	1894	600
GRACE SCRIBNER, 8th year, 190 Liberty Street.....	1893	600
ANNA A. BURNHAM, 7th year, 11 Puffer Street.....	1894	600
IRMA V. HODGMAN, 6th year, 23 Whitney Avenue .....	1897	600

MARY A. GORMAN, 5th year, 76 Charles Street,.....	1895	600
ELLEN L. FLOYD, 5th year, 124 Stevens Street.....	1887	600
ELLA E. PRESCOTT, 4th year, 58 Pine Street.....	1894	600
BRIDE T. SWEENEY, 4th year, 102 Pleasant Street. ....	1900	450

Primaries in Lincoln School Building.

JULIA G. HALORAN, 1st year, 546 East Merrimack Street..	1900	\$ 500
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HOWARD STREET SCHOOL.

Howard Street, between Chelmsford and Hale Streets.

MARION E. GREENE, Principal, 3rd year, 96 Pine Street...	1884	\$ 650
ALICE C. GREENE, 2nd year, 93 Pine Street.....	1894	600

GRAND STREET SCHOOL.

(Howard Street Annex.)

Grand Street, between Westford and Middlesex Streets.

JENNIE M. BENNETT, 1st year, 94 Dover Street.....	1885	\$ 600
MINNIE A. WILLSON, 1st year, 28 Cambridge Street.....	1887	600

PLAIN STREET SCHOOL.

Corner Plain and Powell Streets.

FLORA H. SPRAGUE, Principal, 3rd year, 589 School Street	1882	\$ 650
MARY A. FARNHAM, 2nd and 3rd years, 90 Gates Street	1887	600
LILLA M. STANLEY, 2nd year, 1 Horn Street.....	1897	600
LENA M. ROBINSON, 1st year, 68 South Walker Street..	1898	600
CARRIE B. PRICE, 1st year, 18 Hadley Street.....	1900	500
MABEL E. BROWN, Substitute, 192 Branch Street.....		

MOODY GRAMMAR SCHOOL.

Corner High and Rogers Streets.

WILLIAM S. GREENE, Master, 454 Andover Street.....	1883	\$2000
MERCENA F. WHITEHORN, 9th year, 52 Hanks Street...	1877	600
CARRIE A. PAUL, 8th year, 60 Fort Hill Avenue.....	1891	600
FRANCES E. HARDMAN, 8th year, 263 Fairmount Street.	1873	600

# ROLL OF TEACHERS.

107

IDA L. SAMUELS, 7th year, 56 Fifth Avenue...	1898	500
ELLA M. BREEN, 6th year, 23 Marsh Street.....	1893	600
FRANCES E. GARITY, 5th year, 34 Read Street.....	1874	600
NELLIE C. MAHONEY, 4th year, 17 North Street .....	1898	600
FLORA A. OWEN, 4th and 5th years, 60 Fort Hill Avenue,	1900	450

## POND STREET SCHOOL.

Corner High and Pond Streets.

MARIETTA HILL, Principal, 3rd year, 303 East Merrimack Street.....	1870	\$ 650
WINIFRED HAGGERTY, 2nd year, 52 Huntington Street..	1884	600
ADELAIDE CROWLEY, 1st year, 115 Fort Hill Avenue.....	1894	600

## HIGH STREET SCHOOL.

High Street, between Chestnut and Everett Streets.

CLARA A. EMERSON, Principal 2nd and 3rd years, 216 Appleton Street.....	1869	\$ 625
ELIZABETH WORTHLEY, 1st and 2nd years, 27 Canada Street.....	1891	600

## FAYETTE STREET SCHOOL.

Fayette Street, between Chestnut and Everett Streets.

GEORGIA A. HARNDEN, Principal 2nd and 3rd years, 149 Pleasant Street.....	1885	\$ 625
MARY A. MEEHAN, 1st and 2d years, 100 Bourne Street...	1895	600

## SYCAMORE STREET SCHOOL.

Sycamore Street.

FLORENCE E. ROWELL, 640 Bridge Street.....	1900	\$ 450
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## PAWTUCKET GRAMMAR SCHOOL.

Mammoth Road, Pawtucketville.

WILLIAM P. BARRY, Master, 1280 Middlesex Street.....	1887	\$2000
ELLEN M. MacDONALD, 9th year, 290 East Merrimack St..	1878	600



CARRIE M. HART, 8th year, 16 Varney Street.....	1887	600
ELIZABETH A. HART, 7th year, 16 Varney Street.....	1886	600
EFFIE I. MARSHALL, 6th year, 28 Riverside Street.....	1887	600
JULIA M. HEALEY, 5th year, 108 Bowers Street.....	1870	600
GOLDIE M. GARDNER, 4th year, 56 Willie Street.....	1898	600

## NEW MOODY STREET SCHOOL.

ELLEN M. HOLDEN, Principal, 3d year, 21 Eighth Ave..	1876	\$ 650
EUGENIA L. HOGAN, 2nd and 3rd years, 81 Fourth Ave..	1889	600
NELLIE F. DAVIDSON, 2nd year, 20 Lombard Street.....	1891	600
ALICE B. BESSE, 1st year, 581 Rogers Street.....	1891	600
FANNIE A. HARDY, 1st year, 22 Third Street.....	1890	600

## LEXINGTON AVENUE SCHOOL.

Lexington Avenue, near Varnum Avenue.

HELEN KOHAWN, Ungraded, 63 Thirteenth Street.....	1877	\$ 625
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## VARNUM GRAMMAR SCHOOL.

Myrtle Street, Centralville.

HENRY H. HARRIS, Master, 26 Massachusetts Corporation	1893	\$1900
ELIZABETH C KENNEDY, 9th year, 42 Eighteenth Street	1884	600
MARY F. WING, 9th year, 99 Third Street.....	1879	600
ELIZABETH F. BLANDIN, 8th year, 2 Belmont Street.....	1896	600
AGNES BAILEY, 8th year, 53 Third Street.....	1900	450
GRACE W. BALCH, 7th year, 434 Westford Street.....	1894	600
DAISY B. MACBRAYNE, 7th year, 24 Beech Street.....	1900	500
ALICE M. MAGOON, 7th year, 215 Stackpole Street.....	1898	600
ALICE R. KEESE, 6th year, Sharon, Mass.....	1881	600
MARY A. FAY, 6th year, 303 Tenth Street.....	1898	600
AGNES T. FAY, 6th year, 303 Tenth Street.....	1891	600
ELIZABETH F. GARRA, 5th year, 109 Bartlett Street.....	1893	600
ADA E. HOOLE, 5th year, 173 Warren Street.....	1894	600
ROSA A. DOWD, 5th year, 237 Tenth Street... ..	1884	600
JULIA WILLIAMS, 4th year, 640 Bridge Street.....	1886	600
ELIZABETH M. BUTLER, 4th year, Temporary, 142 Third Street .....		

WEST SIXTH STREET SCHOOL.

West Sixth Street, between Coburn and Jewett Streets, Centralville.

STELLA J. ALLEN, Principal, 3rd year, 115 Third Street..	1879	\$ 650
LIZZIE F. LAMERE, 2nd year, 829 Bridge Street.....	1885	600
MARION S. KEYES, 2nd year, 102 Third Street.....	1888	600
MARY J. CALLAHAN, 1st year, 117 Durant Street.....	1895	600

TENTH STREET SCHOOL.

Corner Tenth and Varnum Streets, Centralville.

MARY F. BEANE, Principal, 3rd year, 212 Tenth Street...	1879	\$ 650
FANNIE H. MURPHY, 2nd and 3rd years, 42 Twelfth Street	1889	600
ALICE A. HOLTHAM, 1st and 2nd years, 1107 Bridge Street	1887	600
ELLA A. BAILEY, 1st year, 118 Sixth Street.....	1869	600

LAKEVIEW AVENUE SCHOOL.

Lakeview Avenue, Centralville.

LILLIAN C. WHOLEY, Principal, 3rd year, 359 Stevens...		
Street .....	1894	\$ 650
MARGARET J. MCCLUSKEY, 2nd year, 161 Lakeview Avenue	1890	600
MARTHA ROGERS, 1st year, 131 Cumberland Road.....	1895	600
M. JOSEPHINE DONEHUE, 1st year, 851 Bridge Street....	1900	450
ELSIE M. PUFFER, 1st year, Assistant, 942 Middlesex Street		

BILLINGS STREET SCHOOL.

MALVINA LAMERE, Principal, 1st year, 6 West Eleventh		
Street .....	1894	\$ 650
ANNIE M. ROBBINS, 2nd and 3rd years, 62 Twelfth Street	1895	600
MARGARET F. HOWE, 5 Appleton Corporation.....	1900	450
ETTA FOYE, 2nd year, Temporary. 201 Market Street....		

## KINDERGARTENS.

## VARNUM SCHOOL.

NETTIE M. CONANT, Principal, 21 Osgood Street.....	1892	\$ 500
CLARA M. EVERETT, 945 Middlesex Street,.....	1896	450
JOSEPHINE GOULD, 162 Branch Street.....	1897	450

## DOVER STREET.

ELIZABETH A. WILSON, Principal, 15 South Canton Street	1893	\$ 500
EDITH A. ANDREWS, 77 Fort Hill Avenue.....	1897	450

## MOGDY SCHOOL.

MARY C. WALKER, Principal, 100 Appleton Street.....	1893	\$ 500
EDITH A. HOWITT, 95 Myrtle Street.....	1897	450

## PINE STREET.

LOUIE I. SMITH, Principal, 69 Nichols Street.....	1895	\$ 500
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## CHARLES STREET.

MABEL D. NICKERSON, Principal, 136 Chestnut Street...	1893	\$ 500
ETHEL BAKER, 100 Westford Street.....	1899	450

## BARTLETT SCHOOL.

E. BELLE PERHAM, Principal, 100 Riverside Street.....	1893	\$ 500
CLARE S. REED, 11 Nesmith Street....	1896	450

## AGAWAM STREET.

SARAH G. SPARKS, Principal, 59 Elm Street.....	1894	\$ 500
ROSEMARY LENNON, 39 Carter Street.....	1895	450

## LINCOLN SCHOOL.

ELSIE M. CRAGIN, Principal, 114 South Walker Street...	1895	\$ 500
GERTRUDE A. ROBERTS, 182 Stevens Street.....	1897	450

# ROLL OF TEACHERS.

III

## CHAPEL STREET.

MARIETTA G. GORMLEY, Principal, 22 Lyon Street.....	1895	\$ 500
KATHERINE C. EARLEY, 172 Concord Street.....	1896	450

## FRANKLIN SCHOOL.

N. Grace Taylor, Principal, 118 Bartlett Street.....	1895	\$ 500
HORTENSE LAMERE, 6 West Eleventh Street.....	1899	450

## PAWTUCKET.

M. MARIETTA KING, Principal, 223 Stackpole Street....	1895	\$ 500
S. HORTENSE TABOR, 82 Riverside Street.....	1896	450

## WORTHEN STREET.

HELEN W. NOYES, Principal, 49 Nesmith Smith.....	1896	\$ 500
S. ALICE KNAPP, 407 Moody Street....	1899	450

## SUPERVISOR OF KINDERGARTENS.

ANNA W. DEVEREAUX, 73 Nesmith Street.....	1893	\$ 500
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## TEACHER OF PENMANSHIP.

THOMAS M. GRAVES, 112 Llewellyn Street .....	1883	\$1250
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## MUSICAL DIRECTOR.

FREDERICK O. BLUNT, 246 Branch Street.....	1898	\$1100
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## TEACHER OF DRAWING.

OLIVE E. UNDERHILL, 117 Branch Steeet... ..	1887	\$1250
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## TEACHER OF SEWING.

IDA J. FLINT, 200 Liberty Street.....	1880	\$ 800
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## MILITARY INSTRUCTOR.

ALEXANDER GREIG, JR., Philippine Islands.....	1891	\$ 250
WILLIAM FAIRWEATHER, Substitute, 756 School Street..		

## TRAINING SCHOOL GRADUATES.

## CLASS OF JUNE, 1898.

E. Blanche Brigham, 10 Manahan Street.  
Mabel E. Brown, 172 Branch Street.  
Etta G. Burns, 154 Perry Street.  
Annie J. Devine, 110 Carlisle Street.  
Etta Foye, 201 Market Street.  
Julia A. Kenney, 99 Washington Street.  
Katherine H. Law, 947 Middlesex Street.  
Sadie F. McCort, 397 Worthen Street.  
Elizabeth T. Moore, 416 Walker Street.  
Annie S. Murphy, 1 Carter Place.

## CLASS OF FEBRUARY 1889.

Elizabeth M. Butler, 142 Third Street.  
Corinna G. Cover, 16 Lombard Street.  
Maude M. Hardy, 142 Third Street.  
Josie V. Hoar, 87 Mt. Washington Street.  
Delia C. Maloney, 70 Elm Street.  
Elizabeth A. Page, 647 Market Street.  
Elsie M. Puffer, 942 Middlesex Street.  
Mary A. Snow, 89 School Street.

## CLASS OF JUNE, 1900.

Anna I. Cassidy, 4 Fifth Avenue.  
Mary L. Crowley, 231 School Street.  
Elizabeth B. Dame, 178 First Street.  
Sadie M. Deane, 82 B Street.  
Mary F. Devine, East Chelmsford.  
Alice I. Gookin, Wamesit.  
Margaret G. Hyde, 900 Central Street.  
Katherine M. Jantzen, 3 Olive Street.  
Mary H. Killpartrick, 609 Stevens Street.  
Margaret V. Spear, 576 Westford Street.  
Anna G. Tinkham, 131 Cabot St.  
Mary E. Thomas, 40 West Sixth Street.  
Charlotte C. Walsh, 431 Adams Street.



## TEACHERS' CERTIFICATES.

## FIRST GRADE.

Granted Since January 1, 1898.

Luther B. Woodward, Boston University, 1898, 11 Simpson Street.  
Harrison Tarbell Swain, Brown University, 1899, 5 Mason Street,  
Nashua, N. H.  
George A. Willey, Dartmouth, 1874, 124 Appleton Street.  
John F. Meehan, St. Bonaventure College, 1900, 215 Worthen Street.  
Edmund L. Smiley, Boston University, 1900, 89 Grove Street.  
Christopher J. Hagan, Georgetown College, 1900, 217 Warren Street.  
F. Joseph Dowd, Harvard, 1900, 212 Crosby Street.

## THIRD GRADE.

Helen Esther Nagle, Radcliffe, 1899, Concord Junction, Mass.  
Harriet Coburn, Smith, 1899, 275 Andover Street.  
Helen M. Meredith, Boston University, 1899.  
Mary H. Killpartrick, Wellesley, 1899, 609 Stevens Street.  
Margaret V. Spear, Wellesley, 1899, 576 Westford Street.  
Maria T. O'Donnell, Radcliffe, 1899, 57 Second Ave.  
Susana T. O'Connor, Radcliffe, 1899, 180 West Street, Lawrence.  
Elizabeth F. Bennett, Wellesley, 1898, 68 Mansur Street.  
Adelaide E. Sweetsir, Mt. Holyoke, 1900, 276 Westford Street.  
Sarah Thurlow, Cornell University, 1900, 392 Westford Street.  
Ethel W. Whitcomb, Smith, 1900, 2 Belmont Street.  
Edith Everett, Boston University, 1900, 3 Aspen Street, Roxbury, Mass.  
Mary H. Wait, Radcliffe, 1900, 6 Adams Street, Wakefield, Mass.  
Alice Prentice Barrows, Vassar, 1900, Vassar College, N. Y.  
Elizabeth M. McNally, Acadia University, N. S., 1900, 28 Warwick St.  
Belle F. Batchelder, 66 Arlington Street.

## FIFTH GRADE.

Annie B. Ellison, Normal School, 1899, North Andover, Mass.  
Ella M. Penn, Normal School, 1899, 262 London Street.  
Florence J. Charlton, Normal School, 1899, 538 Westford Street.  
Alice F. Seeton, Normal School, 1899, 158 Mammoth Road.  
Agnes E. Coburn, Normal School, 1899, 47 Methuen Street.  
Katharine M. Crowley, Normal School, 1899, 115 Fort Hill Ave.  
Clotilda A. Delaney, Normal School, 1899, 791 Broadway.

## SALARIES OF TEACHERS.

## HIGH SCHOOL.

Head Master .....	\$2500 00
First Sub-Master.....	2200 00
Men Teachers .....	800 00 to 1500 00
Women Teachers, first year.....	650 00
Women Teachers, second year .....	700 00
Women Teachers, third year and thereafter.....	800 00 to 1000 00

## GRAMMAR SCHOOLS.

Masters.....	\$1300 00 to \$2000 00
Assistants, first year.....	450 00
Assistants, second year.....	500 00
Assistants, third year and after.....	600 00
Teacher of Penmanship.....	1250 00
Teacher of Drawing .....	1250 00
Teacher of Music.....	1100 00

## PRIMARY SCHOOLS.

Teachers, first year.....	\$450 00
Teachers, second year.....	500 00
Teachers third year and after.....	600 00
Principals of two rooms.....	625 00
Principals of three rooms or more.....	650 00

## TRAINING SCHOOL.

Principal .....	\$2000 00
Two Assistants .....	900 00
One Assistant.....	800 00

## KINDERGARTENS.

Principals .....	\$500 00
Assistants, first year.....	350 00
Assistants after first year.....	450 00

## TEMPORARY TEACHERS.

Men Teachers per day.....	\$3 00.
Women Teachers in High School per day.....	2 50
Women Teachers in Primary and Grammar Schools per day..	2 25.

## EVENING SCHOOLS.

Principal, High School per evening.....	\$5 00
Principals, Elementary Schools per evening.....	2 00
Assistants, High School, per evening.....	2 00
Assistants, Elementary Schools, per evening.....	1 25

## TEXT BOOKS USED IN THE PUBLIC SCHOOLS.

## PRIMARY SCHOOLS.

First Reader, New Franklin Series.	Monroe's Reading Chart.
Second Reader, New Franklin Series.	American Music Reader.
Advanced Second Reader, New	American Music Chart.
Franklin Series.	Blaisdell's Child's Book of Health.
Franklin Primary Arithmetic.	Heath's Vertical Writing Books.

## GRAMMAR SCHOOLS.

Third Reader, New Franklin Series.	Southworth and Goddard's Gram-
Fourth Reader, New Franklin Se-	mar.
ries.	Butler's Elementary Geography.
Intermediate Reader, New Frank-	Butler's Grammar School Geog-
lin Series,	raphy.
Fifth Reader, New Franklin Series.	Frye's Primary Geography.
Scudder's Fables and Folk Stories.	Frye's Common School Geography.
De Foe's Robinson Crusoe.	Eggleston's First Book in American
Burrough's Birds and Bees.	History.
Hawthorne's Wonder Book.	Scudder's History and Short His-
American Literature, Masterpieces.	tory of the United States.
Bradbury's Eaton's Arithmetic.	Fiske's History of the United States.
Werner's Arithmetic, Book III.	Thomas's History of the United
Tarbell's Lessons in English.	States.

Lewis's First Manual of Composition.	Montgomery's Histories of the United States.
Union Series of Physiologies.	Guerber's Story of the Greeks.
Wentworth's First Steps in Algebra.	Guerber's Story of the English.
Worcester's New Pronouncing Speller.	Worcester's Comprehensive Dictionary.
The Morse Speller.	Werner's Mental Arithmetic.
The Rational Spelling Book.	Heath's Vertical Writing Books.
Reed's Word Lessons.	American Music Readers.
	Meservey's Book-keeping.

## HIGH SCHOOL.

## CHEMISTRY, PHYSICS, AND OTHER SCIENCES.

Elements of Chemistry, Avery.	Herbarium, Wilson.
Elements of Chemistry, Shepard.	Lessons in Astronomy, Young.
Experimental Chemistry, Newell.	Physiology, Kellogg.
Qualitative Analysis, Irish.	Physiology, Overton.
A Text-book of Physics, Hall-Bergen.	Physiology, Blaisdell.
Elements of Physics, Avery.	Physiology, Foster and Shore.
Manual of Physics, Cody.	Physiology, Martin.
Botany, Gray.	Physiology, Walker.
Dana's Geological Reader.	Physiology, Colton.
Geology, Le Conte.	Tarr's Physical Geography.

## ENGLISH.

Ancient Mariner, Coleridge.	House of the Seven Gables, Hawthorne.
Burkes' Speeches, Delby.	Hereward the Wake, Kingsley.
Carlyle's Essay on Burns.	Iliad, Pope.
Chaucer to Arnold, George.	Iliad, Bryant.
Christmas Carols, Dickens.	Irving's Tales of a Traveler, Carpenter.
Classics, Hawthorne.	Ivanhoe, Scott.
Conciliation with America, Burke.	Julius Cæsar, Shakespeare.
Composition and Rhetoric, Scott and Denney.	Kenilworth, Scott.

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|-------------------------------------|-------------------------------------|
| DeFoe's History of the Plague,      | Lady of the Lake, Scott.            |
| Carpenter.                          | Lessons in English, Buehler.        |
| DeQuincy's Revolt of the Tartars.   | Last of the Mohicans, Cooper.       |
| Eliot's Silas Marner, Norris.       | Lessons in English, Lockwood.       |
| English Composition, Shaw.          | Life of Samuel Johnson, Macauley.   |
| English Grammar, Meiklejohn.        | Macbeth, Shakespeare.               |
| Exercises in English, Strong.       | Manual of English Literature,       |
| First Bunker Hill Oration, Webster. | Arnold.                             |
| Foundations of Rhetoric, Hill.      | Marmion, Scott.                     |
| Guy Mannering, Scott.               | Merchant of Venice, Shakespeare.    |
| Hand-book of English Literature,    | Milton and Addison, Macauley.       |
| Underwood.                          | Milton's Lyrics, Hodgkins.          |
| Principles of Rhetoric.             | Palamon and Arcite, Dryden.         |
| Scott's Marmion, Dalgleish.         | Paradise Lost, Milton.              |
| Selected American Poems.            | Tales of a Wayside Inn, Longfellow. |
| Selected Ballads and Lyrics, Lodge. | Talisman, Scott.                    |
| Selected Essays of Macauley,        | Tanglewoods, Tales, Hawthorne.      |
| Chalmers.                           | Thanatopsis, Bryant.                |
| Shakespeare's Plays, Hudson.        | The Classic Myths.                  |
| Silas Marner, Eliot.                | The Princess, Tennyson.             |
| Sir Roger de Coverly Papers, Addi-  | Twice Told Tales, Hawthorne.        |
| son.                                | Vicar of Wakefield, Goldsmith.      |
| Sketch Book, Irving.                | Westward Ho, Kingsley.              |
| Southey's Life of Nelson.           | Wonder Book, Hawthorne.             |
| Story of the Odyssey, Church.       | Woodstock, Stott.                   |
| Tales from Shakespeare, Lamb.       | Young Folks' Plutarch, Rosalie-     |
|                                     | Kaufman.                            |

## FRENCH.

- |                                    |                                |
|------------------------------------|--------------------------------|
| Bug-Jargal, Hugo.                  | French Dictionary, Heath.      |
| Capi et sa Troupe.                 | French Grammar, Grandgent.     |
| College Plays, Bocher.             | French Grammar, Otto-Bocher.   |
| Calomba Merimee.                   | French Grammar, Worman.        |
| Complete French Course, Chardenal. | French Lyrics, Bowen.          |
| Contes et Legendes, Guerber.       | French Reader, Super.          |
| Douze Contes Nouveaux, Fontaine.   | Grammaire Francaise, Larive et |
| Easy French Readings, Fisher.      | Fleury, 2me An.                |



Exercises, No. 1, Grandgent.	Le Conscrit de 1813, Erckmann-Chatrain.
La Belle Nivernaise, Daudet.	
La Famille de Germandre, Sand.	Le Cure de Tours, Balzac.
La Fontaine's Fables, Mme. Beck's Edition.	Les Precieuses' Ridicules, Moliere.
La Siege de Berlin,	Methode Berlitz. Part I.
La Tache du Petit Pierre.	Methode Berlitz, Part II.
La Voyage de Monsier Perrichon, Labiche.	Pecheur d'Islande, Loti.
French Composition, Grandgent.	Readings from French History, Super.
Sight Reading, Rogers.	Scenes de la Revolution Francaise. Lamartine.

## GERMAN.

Berlitz Reader.	First Year German, Keller.
Die Schonsten Deutschen Lieder, Wenckebach.	German Dictionary, Elwell.
	German Grammar, Otto.
Eisenbach's German Lessons, Collar.	Immense, Storm's.

## GREEK.

Anabasis.	Greek Lexicon, Liddell and Scott.
Greek Composition, Higley.	Greek Lexicon, White.
Greek Composition, Woodruff.	Greek Reader, Goodwin.
Greek Grammar, Goodwin.	Homer's Iliad, Seymour.
Greek Lessons, White.	Homer's Odyssey, Seymour.

## HISTORY.

Age of Pericles, Grant.	History of England, Coman and Kendall.
American History, Montgomery.	
Ancient History, Myers.	History of English People, Green.
English History, Montgomery.	History of Greece, Pennell.
English History, Higginson and Channing.	History of Rome, Allen.
European History, Adams.	Johnston's American History.
Fiske's School Histories.	Outlines of History, Swinton.
	Plutarch's Lives, Kaufman.

General History, Myers.	Source Book, Hart.
Greek History, Oman.	Universal History, Sanderson.
Greek History, Betsford.	U. S. History, McMaster.
Greek Tragedians, Church.	U. S. History, Channing.
Greek Civilization, Mahaffy.	U. S. History, Scudder.

## LATIN.

Cæsar, Allen and Greenough.	Latin Lexicon, White.
Cicero, Allen and Greenough.	Nepos, Barss,
First Latin Book, Collar and Daniel.	New Latin Composition.
Gate to Cæsar, Collar.	Ovid, Allen and Greenough.
Latin Composition, Part I, Daniell.	Sallust.
Latin Composition, Part II, Daniell.	Virgil, Allen and Greenough.
Latin Composition, Collar.	Virgil, Brice.
Latin for Sight Reading, Tomlinson.	Viri Romæ, Rolfe.
Latin Grammar, Allen and Greenough.	

## MATHEMATICS.

Academic Algebra, Wells.	Higher Algebra, Wells.
Arithmetic, Wentworth and Hill.	Surveying, Davies.
Geometry, Plane and Solid, Wentworth.	Trigonometry, Bradbury.
Geometry, Wells.	Trigonometry, Wentworth.

# SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS OF THE CITY OF LOWELL FOR THE YEAR ENDING JUNE 30, 1900.

SCHOOLS.	LOCATION.	Whole No. of Enrolled.		No of pupils belonging Dec., 1900.		Whole No of pupils on time books since Sept. 1, 1899.		Average No. of pupils belonging to school.		Average daily attendance.		Per cent. of attend- ance.	No. en't'd not rec'd from any other pub. school. Rec'd from other pub. schools of lower grade. Rec'd from other pub. schools of same grade. Sent to other public schools of higher grade. Sent to other public schools of same grade. Number of class rooms in regular use.	Number of seats or sit- ings in these rooms.	Number of half days of school, counting each room as a "school."											
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.																
PRIMARIES.	High .....	391	481	872	367	454	821	391	481	872	355	422	777	337	404	741	95	59	312	150	13	28	869	10,304		
	Bartlett (Gram)...	238	209	447	221	198	419	239	212	451	218	185	403	202	167	369	92	12	89	25	13	12	672	4,293		
	Cross St., near Mt. Vernon St.	87	79	166	79	67	146	105	97	202	80	75	155	74	67	141	91	67	4	20	21	12	4	182	1,452	
	Morrill .....	155	89	244	75	54	129	167	99	266	122	63	185	112	55	167	90	89	0	22	30	16	4	196	1,444	
	Bartlett .....	69	78	147	63	72	135	77	83	160	67	75	142	58	66	124	90	11	38	13	32	16	3	162	1,077	
	Totals for Primaries .....	311	246	557	217	193	410	349	279	628	269	213	482	244	188	432	90	167	42	55	83	44	11	540	3,973	
Butler (Gram) .....	Gorham St.....	372	358	730	347	341	688	388	377	765	327	320	647	305	301	606	94	52	138	35	60	30	17	829	5,780	
PRIMARIES.	Agawam St .....	66	69	135	50	60	110	78	77	155	58	57	115	54	52	106	93	49	14	23	34	16	3	147	1,096	
	Carter St.....	135	133	268	125	120	245	145	139	284	117	112	229	105	102	207	90	84	2	16	37	33	5	280	1,830	
	London St.....	77	65	142	70	53	123	85	69	154	64	56	120	60	50	110	92	57	19	27	31	27	3	169	1,098	
	Lyon St .....	113	77	190	109	75	184	112	87	219	96	67	163	90	60	150	92	77	0	27	28	26	4	212	1,443	
	Weed St.....	60	62	122	49	49	98	68	77	145	53	53	106	48	49	97	92	41	0	23	31	11	3	168	1,097	
	Totals for Primaries.....	451	406	857	403	357	760	498	459	957	388	345	733	357	313	670	91	308	35	118	161	113	18	976	6,564	
Training (Gram)...	Lawrence St.....	185	164	349	163	144	307	202	178	380	158	140	298	147	127	274	92	44	49	31	16	21	9	398	3,294	
PRIMARIES.	Ames St.....	79	79	158	70	68	138	86	90	176	68	72	140	64	67	131	94	59	2	21	29	17	4	228	1,459	
	Central St.....	88	101	189	81	73	154	98	108	206	79	87	166	72	78	150	90	46	10	24	31	19	4	210	1,460	
	Charles, near Lawrence St.....	121	122	243	92	85	177	147	135	282	93	94	187	81	78	159	85	44	21	39	35	35	4	209	1,460	
	Training .....																									
	Totals for Primaries.....	288	302	590	243	226	469	331	333	664	240	253	493	217	223	440	89	149	33	84	95	71	12	647	4,379	



# SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS.—Continued.

Edson (Gram) .... PRIMARIES.	210	231	441	198	215	413	220	239	459	196	213	409	183	200	383	94	32	78	19	14	17	11	566	4,048	
Charles St., near Gorham St. ....	76	62	138	111	52	163	96	66	162	81	54	135	74	50	124	93	31	1	22	29	30	3	162	1,098	
Cor. Cottage and Chapel Sts. ....	71	77	148	70	66	136	89	82	171	63	63	126	56	54	110	87	34	18	15	29	18	3	159	1,098	
Cor. Summer and Favor Sts. ....	98	104	202	75	76	151	113	117	230	77	69	146	69	60	129	89	118	2	30	21	33	4	220	1,469	
Totals for Primaries. ....	245	243	488	156	194	350	298	265	563	221	186	407	199	164	363	90	183	21	67	79	81	10	541	3,665	
Green (Gram) .... PRIMARIES.	339	255	594	267	239	506	393	300	693	298	224	522	281	208	489	94	124	75	24	27	25	11	594	3,988	
Cabot St. ....	124	10	225	66	57	123	126	113	239	71	58	129	63	52	115	89	135	0	14	24	9	4	224	1,448	
Cor. Cheever and Tucker Sts. ....	129	86	215	60	42	102	132	87	219	57	36	93	51	30	81	87	215	0	4	9	3	3	157	1,097	
Cor. Kirk and Lee Sts. ....	56	45	101	48	34	82	62	51	113	44	29	73	39	25	64	88	47	3	12	14	10	2	116	367	
Worthen St. ....	138	120	258	98	72	170	173	138	311	108	86	194	101	78	179	92	122	24	36	47	31	4	224	1,467	
Totals for Primaries. ....	447	352	799	272	205	477	493	389	882	280	209	489	254	185	439	90	519	27	66	94	53	13	721	4,379	
Hughland (Gram) .... PRIVARIES.	348	369	717	335	363	698	375	387	762	327	349	676	303	317	620	92	47	117	45	58	40	15	718	6,117	
Dover St., near Grove St. ....	60	76	136	67	75	142	66	87	153	54	69	123	49	60	109	89	27	32	8	30	10	3	143	1,095	
Cor. Pine and Gibson Sts. ....	36	44	80	34	47	81	46	49	85	35	40	75	31	34	65	86	11	13	9	24	5	2	112	726	
Function of Branch and Middlesex Sts. .	101	83	184	96	75	171	126	101	227	88	65	153	80	57	137	90	60	18	43	35	29	4	202	1,472	
Powell St., near Liberty St. ....	45	36	81	40	38	78	50	38	88	50	38	88	47	37	84	95	15	4	7	9	6	2	112	724	
Totals for Primaries. ....	242	239	481	237	235	472	268	275	543	227	212	439	207	188	395	90	113	67	67	98	50	11	569	4 017	
A. Lincoln (Gram) .... PRIMARIES.	185	225	410	186	205	391	224	263	487	177	208	385	163	191	354	92	30	78	39	29	21	9	450	3,474	
Chelmsford St., near Lincoln Square. ....																									
Howard St., near Hale St. ....	117	90	207	102	86	188	119	114	233	99	75	174	89	63	152	88	66	3	23	28	26	4	210	1,463	
Cor. Chelmsford and Plain Sts. ....	130	115	245	109	108	217	142	129	271	111	100	211	103	94	197	93	26	6	25	41	29	5	280	1,830	
In Lincoln Grammar School Building. ....	25	25	50	17	28	45	28	28	56	19	23	42	18	20	38	89	39	9	6	0	4	1	56	366	
Totals for Primaries. ....	272	230	502	228	222	450	289	271	560	229	198	427	210	177	387	90	131	18	54	69	59	10	546	3,662	
Moody (Gram) .... PRIMARIES.	185	184	369	194	157	351	192	189	381	167	160	327	154	144	298	91	30	65	14	34	12	8	404	2,931	
Cor. Rogers and High Sts. ....																									
Fayette, bet. Chestnut and Everett Sts. .	42	43	85	30	25	55	55	53	108	30	29	59	28	26	54	92	44	0	23	8	21	2	98	728	
High, bet. Chestnut and Everett Sts. ....	50	32	82	41	23	64	65	47	112	43	30	73	39	28	67	92	22	11	19	18	15	2	96	730	
Oaklands. ....	29	22	51	18	22	40	29	27	56	19	18	37	17	16	33	89	19	0	5	9	9	1	54	366	
Cor. Pond and High Sts. ....	86	64	150	75	51	126	97	72	169	78	49	127	68	43	111	87	25	26	19	34	14	3	151	1,100	
Totals for Primaries. ....	207	161	368	164	121	285	246	199	445	170	126	296	152	113	265	90	110	37	66	69	59	8	399	2,924	
Pawtucket (Gram) .... PRIVARIES.	132	148	280	113	129	242	144	155	299	120	130	250	116	124	240	96	40	33	21	30	26	6	324	2,180	
New Moody St. ....	120	128	248	103	95	198	131	142	273	108	105	213	100	94	194	90	58	25	21	32	12	5	280	1,829	

# SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS.—Continued.

SCHOOLS.	LOCATION.	Whole No. Enrolled.		No of pupils belonging Dec., 1900.		Whole No. of pupils on time books since Sept. 1, 1899.		Average No. of pupils belonging to school.		Average daily attendance.		Per cent. of attendance.	No. ent'd not rec'd from any other pub. school.	Rec'd from other pub. schools of lower grade.	Rec'd from other pub. schools of same grade.	Sent to other pub. schools of higher grade.	Sent to other pub. schools of same grade.	Number of class rooms in regular use.	Number of seats or sit-ings in these rooms.	Number of half days of school, counting each room as a "school."						
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.																
Varnum (Gram) PRIMARIES.	Myrtle and Beech Sts., Centralville.....	346	362	708	322	340	662	424	381	805	315	334	649	293	309	602	93	147	146	38	61	31	15	825	5,388	
	Billings St., near Hildreth St.....	76	55	131	67	52	119	90	59	149	67	45	112	62	40	102	91	16	3	18	30	7	3	162	1,091	
	Lakeview Ave.....	156	129	285	108	104	212	175	145	320	109	88	197	97	76	173	88	165	0	35	33	23	4	214	1,472	
	West Sixth St.....	133	110	243	100	84	184	151	124	275	97	86	183	90	78	168	92	91	6	32	47	49	4	225	1,458	
	Tenth St .....	99	113	212	84	95	179	114	122	236	85	86	171	77	78	155	91	45	22	26	59	21	4	221	1,468	
Totals for Primaries .....		464	407	871	359	335	694	530	450	980	358	305	663	326	272	598	90	317	31	111	169	100	15	822	6,489	
MIXED SCHOOLS.	Cor. Middlesex and Cornell Sts.....	68	69	137	50	55	105	71	72	143	52	56	108	48	48	96	89	137	0	6	7	16	3	157	1,177	
	Lexington Ave., near Varnum Ave.....	23	16	39	24	12	36	26	16	42	18	12	30	15	11	26	86	39	0	3	9	3	1	56	366	
Total for Mixed Schools.....		91	5	176	74	67	141	97	88	185	70	68	138	63	59	122	88	176	0	9	16	19	4	213	1,543	
KINDERGARTENS.																										
Agawam St. ....	Agawam St. Primary School Building...	25	33	58	18	13	31	25	33	58	15	19	34	12	16	28	91	58	0	0	14	0	1	50	185	
	Varnum School, Centralville.....	43	46	89	24	19	43	45	50	95	30	31	61	26	26	52	85	89	0	6	7	1	2	75	191	
	Chapel St.....	36	29	65	20	20	40	36	29	65	19	17	36	17	14	31	86	65	0	0	18	1	1	45	185	
	Dover St. ....	30	31	61	29	13	42	30	31	61	18	20	38	15	15	30	79	61	0	0	20	4	1	50	182	
	Bartlett School Building, Wannalaucit St.	21	12	33	19	16	35	35	20	55	25	15	40	20	12	32	80	21	0	0	23	0	1	50	177	
	Franklin School Building, Branch St....	47	29	76	22	18	40	51	31	82	27	16	43	21	11	32	74	79	0	2	8	1	1	50	180	
	Lincoln School Building, Chelmsford St.	31	60	91	23	16	39	32	61	93	20	33	53	16	25	41	77	91	0	2	37	4	1	50	180	
	Moody School Building, Rogers St.....	46	36	82	22	16	38	46	36	82	30	22	52	20	15	35	67	82	0	0	33	0	1	60	180	
	Pawtucket School Building.....	37	34	71	21	20	41	38	34	72	23	18	41	18	15	33	80	71	0	1	26	0	1	61	181	
	Primary School Building, Charles St....	28	31	59	15	15	30	28	32	60	19	16	35	15	12	27	77	59	0	1	20	0	1	50	180	
	Worthen St School Building.....	41	40	81	12	18	30	41	40	81	20	21	41	16	17	33	81	81	0	0	34	0	1	48	180	
	Cor. Pine and Gibson Sts.....	18	20	38	13	12	25	19	21	40	12	14	26	10	13	23	88	38	0	2	6	0	1	36	180	
	Totals for Kindergartens.....		463	401	864	238	198	436	426	418	844	258	242	500	206	191	397	80	795	0	14	246	11	13	625	2,181
	SUMMARY. — High School.																									
High School.....		391	481	872	367	454	821	391	481	872	355	422	777	337	404	741	95	59	312	150	236	236	28	839	10,304	
Grammar Schools.....		2540	2505	5045	2342	2331	4673	2801	2681	5482	2503	2263	4566	2147	2088	4235	93	558	868	269	354	642	113	5780	41,493	
Primary Schools.....		3047	2714	5761	2382	2183	4565	3433	3062	4495	2490	2152	4642	2266	1917	4183	90	2055	336	709	949	642	113	6041	44,885	
Mixed Schools .....		91	85	176	74	67	141	97	88	185	70	68	138	63	59	122	88	176	0	9	16	19	4	213	1,543	
Totals, not including Kindergartens.....		6069	5785	11,854	5169	5035	10,204	6722	6312	13,034	5218	4905	10,123	4813	4408	9281	92	2848	1516	987	1469	897	258	12903	98,225	







AUDITOR'S

Sixty-Fifth Annual Report

OF THE

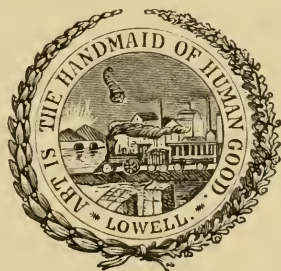
RECEIPTS AND EXPENDITURES

OF THE

CITY OF LOWELL, MASS.,

TOGETHER WITH THE

TREASURER'S ACCOUNT AND THE ACCOUNT OF THE COMMISSIONERS OF SINKING FUNDS, FOR THE FINANCIAL YEAR ENDING DECEMBER 31, 1900.



LOWELL, MASS.:



LAWLER PRINTING COMPANY, 68 PRESCOTT STREET,

1901.



AUDITOR'S REPORT

OF THE

RECEIPTS AND EXPENDITURES

For the Year Ending Dec. 31, 1900.





# AUDITOR'S REPORT.

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CITY OF LOWELL,  
AUDITOR'S OFFICE, Jan. 1, 1901.

TO THE CITY COUNCIL:

*Gentlemen:*—In conformity with the requirements of the ordinances of the City, I have the honor to present the Sixty-fifth Annual Report of the Receipts and Expenditures of the City of Lowell for the year ending Dec. 31, 1900, exhibiting the same as classified in the several department accounts, with the value of the Real and Personal Property in charge of the several departments, and a statement of the City Debt and Debts due the City.

## RECEIPTS.

The whole amount of money received into the City Treasury from all sources, from January 1 to Dec. 31, 1900, was... \$3,332,156 25

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\$3,332,156 25

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Of this amount there was received on account of

General Treasury Fund.....	\$3,054,778 94
Commons, Salaries and Labor.....	51 87
Commons, Sundries.....	38 25
Elections.....	9 00
Engineering.....	8,957 18
Fire Department, Sundries...	85
Huntington Hall, Rebuilding..	286 79
Huntington Hall, Maintenance,	1 80
Indexes, City Clerk's Office...	1 75
Lighting, Sundries.....	5 00
Pauper Department, Alms-house.....	11,619 16
Pauper Department, Out Door Relief.....	143 20
Police Department, Salaries and Labor.....	2,240 88
Public Buildings, Labor.....	1,105 36
Public Buildings, Sundries....	612 43
School Houses, Labor.....	1,282 82
School Houses, Sundries.....	1,237 33
High School Annex.....	296 83
Sewer Construction.....	927 00
Sewer Maintenance, Labor....	18 25
Sewer Maintenance, Sundries.	866 42
Sewer, Willard and Humphrey Streets.....	21 56
Soldiers' Relief.....	46 00
State Aid.....	32 00
Streets, Salaries and Labor...	4,023 48
Streets, Fuel, Hay, Grain, etc.	522 00
Streets, Lumber, Hardware, Brick, etc.....	1 10
Streets, Horses, Carriages, etc.....	1,704 14
Streets, Sidewalks.....	10 00
Streets, Painting Aiken Street Bridge.....	9 63
Streets, Sundries.....	312 00
Extension of Aiken Street....	1 37
Watering Streets, Labor.....	112 00
Water Works.....	210,149 86

City Debt.....	\$ 30,100 00	
Interest.....	630 00	
		<u>\$3,332,156 25</u>

**EXPENDITURES.**

The whole amount expended and ordered to be paid from the Treasury from Jan. 1, to Dec. 31, 1900 was.....	\$3,353,844 41	
		<u>\$3,353,844 41</u>

The expenditures were  
charged to the following  
appropriations or accounts:

To Abatement of Taxes.....	\$ 3,233 89
Assessors, Salaries.....	12,492 40
Assessors, Sundries.....	1,783 93
Auditor, Salaries.....	3,150 00
Auditor, Sundries.....	440 80
Care City Hall, Labor....	4,977 14
Care City Hall, Police Officer .....	1,003 75
Care City Hall, Sundries..	892 47
City Cemeteries, Labor....	5,818 10
City Cemeteries, Sundries	3,310 41
City Cemeteries, New Fence.....	350 00
City Cemeteries, Painting Fence.....	484 45
City Cemeteries, Repairing Wall School Street Cemetery .....	156 50
City Clerk, Salaries.....	3,936 00
City Clerk, Sundries.....	1,139 52
City Messenger, Salary ..	1,200 00
City Messenger, Carriage Hire.....	45 50
City Messenger, Sundries	248 75

To City Scales .....	\$	800 00
City Sealer .....		410 00
City Treasurer, Salaries..		6,882 10
City Treasurer, Sundries.		3,847 85
Clerk Common Council....		300 00
Commons, Salaries and Labor .....		10,175 40
Commons, Sundries.....		2,463 73
Commons, Repairing Walks.....		428 57
Elections.....		6,692 56
Registrars, Salaries and Clerk Hire.....		2,752 50
Registrars, Printing and Sundries.....		967 34
Engineering.....		16,352 39
Fish Warden.....		40 00
Fire Department, Salaries		100,570 49
Fire Department, Sundries		20,264 35
Health Office, Salaries....		8,697 00
Health Office, Sundries ...		1,327 72
Health Yard, Labor .....		27,108 90
Health Yard, Sundries....		9,132 49
Heating City Hall and Memorial Building, Labor .....		2,879 06
Heating City Hall and Memorial Building, Fuel.....		3,182 63
Heating City Hall and Memorial Building, Sundries.....		1,337 25
Huntington Hall, Re- Building.....		32,879 67
Huntington Hall, Mainte- nance .....		1,839 54
Incidentals.....		3,767 93
Indexes, City Clerk's Office		281 25
Inspector of Animals and Provisions, etc.....		500 00
Inspector of Milk, Vinegar, etc., Salaries.....		2,126 00
Inspector of Milk, Vinegar, etc., Sundries.....		203 97



To Inspector of Wires, Salaries.....	\$ 2,131 42
Inspector of Wires, Expense of Team.....	49 15
Inspector of Wires, Sundries.....	513 55
Law Department, Salaries	4,750 00
Law Department, Sundries	1,205 69
Liquor Licenses.....	41,937 75
Lighting, Labor.....	7,335 51
Lighting, Sundries.....	78,582 08
Mayor .....	4,301 26
Military Aid.....	6,966 00
Paupers, Almshouse .....	57,058 64
Paupers, Out Door Relief..	55,148 10
Police, Salaries and Labor	124,688 74
Police, Sundries.....	8,837 35
Public Buildings, Salaries	2,251 50
Public Buildings, Labor..	9,781 99
Public Buildings, Sundries	7,118 14
Pound Keeper .....	5 00
Rifle Range, Janitor .....	457 50
Rifle Range, Painting, etc.	49 77
Rifle Range, Trap Doors, Grading, Sundries....	181 51
Schools .....	275,320 31
School Houses, Labor including Clerk .....	11,744 14
School Houses, Janitors...	29,358 50
School Houses, Kalsomin- ing .....	600 00
School Houses, Sanitar- ies, Franklin and Central Street Schools.....	2,080 35
School Houses, Sundries..	4,023 11
High School Annex .....	55,151 94
Carter Street School House	585 67
Sewer Construction.....	99,162 52
Sewer Maintenance, Labor .....	10,218 11
Sewer Maintenance, In- spector .....	939 00

To Sewer Maintenance, Sun-		
dries.....	\$	3,408 89
Sewer in Willard and Hum-		
phrey Streets.....		9,890 31
Soldiers' Relief.....		9,278 36
State Aid.....		14,951 00
State Aid Office Expenses.		1,988 49
Streets, Salaries and La-		
bor.....		92,316 99
Streets, Fuel, Hay, Grain,		
etc.....		10,836 36
Streets, Lumber, Hard-		
ware, Brick, etc.....		12,637 18
Streets, Land Damages...		3,466 00
Streets, Engineering.....		3,795 14
Streets, Horses, Carriages,		
etc.....		2,594 37
Streets, Trap Rock.....		2,027 90
Streets, Edgestones.....		3,380 65
Streets, Sidewalks.....		4,939 72
Streets, Painting Aiken		
Street Bridge.....		2,791 84
Streets, Sundries.....		7,288 68
Extension of Aiken Street.		4,429 70
Extension of Lundberg		
Street.....		2,022 80
Paving Mammoth Road,		
Suffolk Street, and		
Grading and Paving		
Bridge Street.....		4,389 77
Supply Department, Pur-		
chasing Agent.....		2,400 00
Supply Department, Type-		
writer.....		659 00
Supply Department, In-		
spector.....		733 17
Supply Department, Clerk.		626 00
Supply Department, Sun-		
dries.....		852 05
Watering Streets, Labor..		6,104 65
Watering Streets, Sun-		
dries.....		4,679 50
Water Works.....		202,634 80

To Abolition of Grade Cross-		
ings.....	\$	3,788 94
City Debt.....		339,840 00
Corporation Tax.....		56 24
Corporation Tax Fund ....		7,645 30
County Tax.....		70,875 05
Interest.....		130,612 53
National Bank Tax.....		17,461 25
State Tax.....		44,634 29
Sinking Funds.....		43,300 00
Temporary Loans.....		925,000 00
Location of Water Tower.		13,926 36
Memorial Building.....		1,726 37
Soldiers and Sailors Memo-		
rial Tablets.....		1,017 30
Library.....		15,725 00
1899 Bills.....		3,884 01
Extension of Fort Hill		
Park.....		3,061 04
Improvement of Annex to		
Edson Cemetery.....		1,523 24
Fourth of July.....		3,832 21
Paving Market Street....		11,889 20
Lowell Textile School....		6,000 00
Labor Day.....		1,000 00
Reception to Hon. Charles		
H. Allen.....		297 15
Placing Wires of Police		
Department Under-		
ground.....		528 00
Placing Wires of Fire De-		
partment Under-		
ground.....		3,026 89
Driven Wells.....		62,403 24
Award to Jennie W. Mack.		250 00
Paving Jackson Street....		2,558 90
Pevey Bros.' Claim.....		7,500 00
		<hr/>
		\$3,353,844 41

The balance in the Treasury, Jan. 1, 1900, was.....	\$ 93,693 32	
The amount received into the Treasury during the year was .....	3,332,156 25	
Making a total of.....	\$3,425,849 47	
The amount paid from the Treasury during the year was .....	3,353,844 41	
The balance in the Treasury, Dec. 31, 1900, was .....		<u>\$ 72,005 16</u>

## CITY DEBT.

Ordinary City Debt Jan. 1, 1900 .....	\$2,647,020 29	
Borrowed during the year 1900,	213,500 00	
Total.....	\$2,860,520 29	
Paid during the year 1900.....	309,740 00	
Total Ordinary City Debt, Dec. 31, 1900.....		\$2,550,780 29
Water Debt, Jan. 1, 1900.....	\$1,229,800 00	
Borrowed during the year 1900,	75,000 00	
Total.....	\$1,304,800 00	
Paid during the year 1900.....	30,100 00	
Total Water Debt, Dec. 31, 1900 .....		<u>1,274,700 00</u>
Total City Debt, Dec. 31, 1900.		<u>\$3,825,480 29</u>

Ordinary City Debt, Dec. 31, 1900 .....	\$2,550,780 29	
Sinking Funds for the payment of the same .....	320,522 92	
	<hr/>	
Net Ordinary City Debt, Dec. 31, 1900 .....		\$2,230,257 37
Water Debt, Dec. 31, 1900 .....	\$1,274,700 00	
Sinking Funds for the payment of the same .....	287,226 20	
	<hr/>	
Net Water Debt, Dec. 31, 1900.		987,473 80
		<hr/>
Total Net Debt, Dec. 31, 1900.		\$3,217,731 17
		<hr/>
Total Net Debt, Dec. 31, 1899.		\$3,308,864 75
Total Net Debt, Dec. 31, 1900.		3,217,731 17
		<hr/>
Decrease in Net City Debt during the year 1900 .....		\$ 91,133 58

**LIMIT OF INDEBTEDNESS.**

Total City Debt Dec. 31, 1900		\$3,825,480 29
Deduct Water Loans .....	\$1,274,700 00	
Deduct Amount exempted by legislature .....	800,000 00	
Deduct Sinking Funds which apply to limit .....	159,473 41	2,234,173 41
	<hr/>	
City Debt as it relates to limit		\$1,591,306 88
		<hr/>
Limit of Municipal Debt for 1901, 2.5% on \$70,974,473 00		\$1,774,361 82
City Debt which relates to limit		1,591,306 88
		<hr/>
Distance from limit Dec. 31, 1900		\$ 183,054 94
		<hr/>

**LOANS, 1900.**

Sewer Construction .....	\$95,000 00
Willard and Humphrey Streets Sewer .....	6,000 00



Commons .....	\$	500 00	
Extension of Fort Hill Park...		3,000 00	
Improvement of Edson Cemetery Annex.....		3,500 00	
Paving Jackson Street .....		3,000 00	
Paving Market Street.....		12,000 00	
High School Annex .....		45,000 00	
Huntington Hall Re-building ..		23,000 00	
Underground Wires, Police Department.....		5,000 00	
Underground Wires, Fire Department .....		10,000 00	
Pevey Bro's. Claim .....		7,500 00	
			\$ 213,500 00

### APPROPRIATIONS, 1900.

	Annual.	Additional.
Abatement of Taxes.....		\$ 34,942 32
Assessors, Salaries .....	\$ 12,600 00	
Assessors, Sundries .....	1,000 00	900 00
Auditor, Salaries .....	3,100 00	
Auditor, Sundries .....	450 00	
Care City Hall, Labor .....	5,000 00	
Care City Hall, Police Officer..	1,013 75	
Care City Hall, Sundries .....	1,300 00	
City Cemeteries, Labor .....	5,900 00	27 55
City Cemeteries, Sundries ....	1,775 00	1,535 41
City Cemeteries, New Fence ..	350 00	
City Cemeteries, Painting Fence.....	675 00	
City Cemeteries, Repairing Wall, School St. Cemetery.	300 00	
City Clerk, Salaries .....	4,326 00	
City Clerk, Sundries .....	1,274 00	
City Messenger, Salaries .....	1,200 00	
City Messenger, Carriage Hire	50 00	
City Messenger, Sundries.....	200 00	75 00
City Scales .....	810 00	
City Sealer .....	410 00	
City Treasurer, Salaries .....	7,270 00	2 23

City Treasurer, Sundries .....	\$ 3,466 00	390 13
Clerk Common Council .....	300 00	
Commons, Salaries and Labor .	9,767 00	356 53
Commons, Repairing Walks ...		500 00
Commons, Sundries .....	2,033 00	578 00
Elections .....	7,120 00	
Registrars, Salaries and Clerk Hire .....	2,700 00	52 50
Registrars, Printing and Sun- dries .....	830 00	200 00
Engineering .....	7,500 00	
Fish Warden .....	40 00	
Fire Department, Salaries ....	100,125 00	445 49
Fire Department, Sundries...	19,875 00	388 50
Health Department, Office, Sal- aries .....	8,763 00	
Health Department, Office, Sun- dries .....	1,237 00	90 72
Health Department, Yard, Labor .....	26,580 00	532 00
Health Department, Yard, Sun- dries .....	4,420 00	4,712 49
Heating City Hall and Memo- rial Building, Labor .....	3,000 00	
Heating City Hall and Memo- rial Building, Fuel .....	2,000 00	1,200 00
Heating City Hall and Memo- rial Building, Sundries ....	600 00	865 29
Huntington Hall, Rebuilding..		23,455 36
Huntington Hall, Maintenance.		2,200 00
Incidentals .....	4,000 00	
Inspector of Animals, Provis- ions, etc .....	500 00	
Inspector of Milk, Vinegar, etc., Salaries .....	2,126 00	
Inspector of Milk, Vinegar, etc., Sundries .....	260 00	
Inspector of Wires, Salaries..	2,000 00	131 42
Inspector of Wires, Expense of Team .....	50 00	
Inspector of Wires, Sundries..	470 00	43 58
Law Department, Salaries ....	4,750 00	
Law Department, Sundries...	1,526 00	
Liquor Licenses .....	39,000 00	2,937 75

Lighting, Labor.....	\$ 8,570 00	
Lighting, Sundries.....	79,430 00	
Mayor's Department.....	4,500 00	
Military Aid.....	7,000 00	
Pauper Department, Alms- house.....	40,000 00	\$ 5,439 48
Paupers, Out Door Relief....	47,000 00	8,004 90
Police Department, Salaries and Labor.....	124,325 00	
Police Department, Sundries..	7,000 00	1,837 35
Public Buildings, Salaries.....	2,346 00	
Public Buildings, Labor.....	9,050 00	
Public Buildings, Sundries....	6,354 00	151 71
Pound Keeper.....	5 00	
Rifle Range, Janitor.....	456 25	1 25
Rifle Range, Painting, etc....	100 00	
Rifle Range, Trap Doors, Grad- ing and Sundries.....	200 00	
School Department.....	270,000 00	5,320 31
School Houses, Labor, includ- ing Clerk.....	10,700 00	
School Houses, Janitors.....	29,200 00	158 50
School Houses. Kalsomining..	600 00	
School Houses, Franklin and Central Street Schools....	2,400 00	
School Houses, Sundries.....	2,700 00	85 78
High School Annex.....		45,000 00
Sewer Construction.....	10,000 00	95,000 00
Sewer Maintenance, Labor....	11,464 00	
Sewer Maintenance, Inspector.	936 00	3 00
Time Keeper.....	600 00	
Sewer Maintenance, Sundries.	2,475 00	67 47
Sewer in Willard and Hum- phrey Streets.....	6,000 00	
Soldiers' Relief.....	8,500 00	750 00
State Aid.....	15,000 00	
State Aid, Office Expenses....	2,000 00	
Streets, Salaries and Labor...	83,200 00	9,000 00
Streets, Fuel, Hay, Grain, etc..	10,350 00	
Streets, Lumber, Hardware, Brick, etc.....	12,500 00	136 08
Streets, Land Damages.....	1,500 00	1,966 00
Streets, Engineering.....	3,300 00	495 14
Streets, Horses, Carriages, etc.	4,000 00	40 23

Streets, Trap Rock.....	\$ 4,000 00	
Streets, Edgestones.....	12,000 00	
Streets, Sidewalks.....		\$ 4,929 72
Streets, Painting Aiken Street Bridge.....	2,000 00	875 00
Streets, Sundries.....	7,000 00	
Supply Department, Purchas- ing Agent.....	2,400 00	
Supply Department, Type- writer.....	650 00	9 00
Supply Department, Inspector.	718 00	15 17
Supply Department, Clerk....	626 00	
Supply Department, Sundries.	506 00	350 00
Watering Streets, Labor.....	5,500 00	600 00
Watering Streets, Sundries...	4,000 00	5,500 00
Abolition of Grade Crossings..		3,788 94
City Debt.....	309,740 00	
Corporation Tax.....		56 24
Corporation Tax Fund.....	10,000 00	
County Tax.....		70,875 05
Interest.....	130,000 00	
National Bank Tax.....	17,461 25	
State Tax.....	44,634 29	
Sinking Funds.....	43,300 00	
Temporary Loans.....		1,000,000 00
Soldiers and Sailors Memorial Tablets.....	800 00	300 00
Library.....	15,725 00	
1899 Bills.....		3,884 01
Extension of Fort Hill Park..		3,100 00
Improvement of Annex to Ed- son Cemetery.....		3,500 00
Improvement of Gorham Street Engine House.....		250 00
Fourth of July.....		4,000 00
Paving Market Street.....		12,000 00
Lowell Textile School.....		6,000 00
Labor Day.....		1,000 00
Reception to Hon. Charles H. Allen.....		300 00
Placing Wires of Police De- partment underground...		5,000 00
Placing Wires of Fire Depart- ment underground.....		10,000 00

Driven Wells.....	\$ 75,000 00	
Award to Jennie W. Mack....	250 00	
Paving Jackson Street.....	3,000 00	
Pevey Bros.' Claim .....	7,500 00	
	<u>\$1,676,768 00</u>	<u>\$1,534,218 14</u>

Respectfully submitted,

DAVID CHASE,

*Auditor of Accounts.*



## APPROPRIATIONS AND EXPENDITURES.

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THE AMOUNT OF THE UNEXPENDED BALANCE OF 1899—  
THE AMOUNT OF THE SEVERAL APPROPRIATIONS MADE  
BY THE CITY COUNCIL DURING THE YEAR—THE  
AMOUNT RECEIVED INTO THE TREASURY FROM ALL  
SOURCES—THE EXPENDITURES IN DETAIL, UNDER EACH  
APPROPRIATION, AND THE UNDRAWN BALANCES DECEMBER 31, 1900—ALSO, THE AMOUNT OF THE CITY DEBT  
—DEBTS DUE THE CITY—SCHEDULES OF THE VALUE  
OF REAL AND PERSONAL PROPERTY, ETC.



## ABATEMENT OF TAXES.

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Balance undrawn Jan. 1, 1900..	\$	50,968 06	
Appropriation, 1900.....		34,952 32	
			\$ 85,920 38

### EXPENDITURES.

Paid Sundry Persons, abatements after payment ....	\$	3,233 89	
			\$ 3,233 89
Abated by Assessors before payment .....	\$	35,575 86	
			35,575 86
Transferred to General Treasury Fund .....	\$	10,000 00	
			10,000 00
			\$ 48,809 75
Balance undrawn Dec. 31, 1900			37,110 63
			\$ 85,920 38

## ASSESSORS' DEPARTMENT, SALARIES.

Annual Appropriation .....	\$ 12,600 00	
	<u>                    </u>	\$ 12,600 00

### EXPENDITURES.

#### Paid Principal Assessors:

To Abel Wheeler .....	\$ 2,250 00	
John P. Mahoney .....	2,250 00	
C. Arthur Abbott .....	2,250 00	
	<u>                    </u>	\$ 6,750 00

#### Paid Assistant Assessors:

To Joseph H. Bergeron .....	\$ 159 00	
Richard Charlton .....	159 00	
Thomas F. Garvey .....	159 00	
John C. King .....	159 00	
Charles Riley .....	159 00	
Robert L. Read .....	159 00	
	<u>                    </u>	954 00

#### Paid Clerks:

To Stephen J. Kirby .....	\$ 1,600 00	
Wm. J. Reardon .....	1,200 00	
James S. O'Sullivan .....	327 50	
James T. Dunfey .....	327 50	
George E. Owen .....	325 00	
Frank B. Peabody .....	325 00	
Andrew Liddell .....	290 00	
Eugene Meyrand .....	300 00	
	<u>                    </u>	4,695 00

Amount carried forward .....		\$ 12,399 00
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Amount brought forward . . . . \$ 12,399 00

Paid Interpreters:

To Charles Branchaud . . . . .	23 40
Theodore Caffé . . . . .	20 00
Peter Garo . . . . .	30 00

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73 40

Paid John McManus, for asses- sing Greeks . . . . .	20 00
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20 00

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\$ 12,492 40

Balance to General Treasury  
Fund . . . . .

107 60

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\$ 12,600 00

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## ASSESSORS' DEPARTMENT, SUNDRIES.

Annual Appropriation .....	\$	1,000 00	
Additional Appropriation .....		900 00	
		<hr/>	\$ 1,900 00

### EXPENDITURES.

#### Paid for SUNDRIES:

To Stephen J. Kirby, for office expenses .....	\$	3 50
John P. Mahoney, for copying lists at probate court .....		7 50
N. E. Tel. and Teleg. Co., for service .....		42 57
O. A. Libby, for rent of telephone index .....		2 00
Banker and Tradesman for subscription .....		5 00
Sampson, Murdock & Co., for directories .....		14 00
V. G. Barnard for postage stamps .....		20 00
Dumas & Co., for blank books and binding...		203 50
G. C. Prince & Son, for stationery .....		26 05
M. G. Wight & Co., for paper .....		17 75
		<hr/>
Amount carried forward .....	\$	341 87

Amount brought forward .....	\$	341 87	
To Butterfield Printing Co., for printing .....		10 50	
Courier - Citizen Co., for printing .....		6 00	
O. A. Libby, for printing.		7 00	
Lowell Sun, for printing ..	1,311	60	
Morning Mail Corp., for printing .....		15 50	
Union Printing Co., for printing .....		31 46	
W. H. Boody, for posting .		6 00	
Horace J. Stevens, for list of copper stock share holders .....		40 00	
D. L. Page Co., for re- freshments .....		10 00	
J. H. Sparks, for carriage hire .....		3 00	
		<hr/>	\$ 1,782 93
Balance to General Treasury Fund, Dec. 31, 1900 ..			116 07
			<hr/>
			<u>\$ 1,900 00</u>

## AUDITOR'S DEPARTMENT, SALARIES.

Annual Appropriation .....	\$	3,100 00	
		<u>          </u>	\$ 3,100 00

### EXPENDITURES.

Paid David Chase, Auditor, salary .....	\$	1,800 00	
Thomas P. Sullivan, Clerk, salary .....		1,300 00	
		<u>          </u>	\$ 3,100 00

## AUDITOR'S DEPARTMENT, SUNDRIES.

Annual Appropriation.....	\$	450 00	
		<u>          </u>	\$ 450 00

### EXPENDITURES.

#### Paid for SUNDRIES:

To David Chase, for pens ....	\$	2 00
V. G. Barnard, for stamps.		5 00
N. E. Tel. & Teleg. Co., for service .....		60 00
Lowell Index Co., for rent of index .....		2 00
Dumas & Co., for blank books .....		42 50
Sampson, Murdock & Co., for directory .....		2 00
G. C. Prince & Son, for pencils .....		2 00
Lowell Rubber Co., for pad .....		50
Tilton & Co., for mucilage.		75
Enterprise Printing and Stamp Works, for stamps .....		1 75
Thomas H. Lawler, for stationery .....		4 50
Buckland Printing Co., for printing .....		6 00
		<u>          </u>
Amount carried forward.....	\$	129 00

Amount brought forward . . . . .	\$	129 00	
To Courier-Citizen Co., for printing . . . . .		110 25	
Lowell Sun, for printing..		162 00	
Morning Mail Co., for printing . . . . .		24 00	
Thompson & Hill, for printing . . . . .		8 30	
F. A. M. Tobin, for print- ing and making blocks.		5 25	
J. E. O'Donnell, for car- riage hire . . . . .		2 00	
		<hr/>	\$ 440 80
Balance to General Treasury Fund, Dec. 31, 1900. . . . .			9 20
			<hr/>
			<u>\$ 450 00</u>



## CARE CITY HALL, LABOR.

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Annual Appropriation .....	\$ 5,000 00	
	<u>                    </u>	\$ 5,000 00
		<u>                    </u>

### EXPENDITURES.

Paid sundry persons for labor.	\$ 4,977 14	
	<u>                    </u>	\$ 4,977 14
Balance to General Treasury		
Fund .....		22 86
		<u>                    </u>
		\$ 5,000 00
		<u>                    </u>
		<u>                    </u>

## CARE CITY HALL, POLICE OFFICER.

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Annual Appropriation.....	\$ 1,013 75	
	<u>                    </u>	\$ 1,013 75
		<u>                    </u>

### EXPENDITURES.

Paid Wm. B. Jones, for ser-		
vices .....	\$ 1,003 75	
	<u>                    </u>	\$ 1,003 75
Balance to General Treasury		
Fund .....		10 00
		<u>                    </u>
		\$ 1,013 75
		<u>                    </u>
		<u>                    </u>

## CARE CITY HALL, SUNDRIES.

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Annual Appropriation .....	\$	1,300 00		\$	1,300 00

### EXPENDITURES.

#### Paid for SUNDRIES:

To Appropriation for Commons, Labor, for labor .....	\$	51 87
Appropriation for Commons, Sundries, for manure and teaming.		13 50
Appropriation for Public Buildings, Labor, for labor .....		2 50
Appropriation for Public Buildings, Sundries, for material .....		63
Appropriation for Water Works, for water ...		132 19
Bartlett & Dow, for keys, stepladder, and repairing locks .....		15 45
W. T. S. Bartlett, for mop handles .....		50
J. C. Bennett, for baskets .		1 62
Amount carried forward .....	\$	218 26

Amount brought forward . . . . .	\$	218 26
To Henry C. Girard, for keys, washers, repairing locks, etc . . . . .		6 13
Thompson Hardware Co., for snow shovels . . . . .		90
H. R. Barker Mfg. Co., for mantles . . . . .		1 30
Derby and Morse, for re- pairing electrical fix- tures . . . . .		29 86
Drury & Green, for repair- ing water closets . . . . .		7 00
Farrell & Conaton, for pipe, fittings, labor, etc . . . . .		14 60
J. L. McElholm, for labor and material on elec- trical fixtures . . . . .		36 87
Tucke & Parker, for re- pairing electrical fix- tures . . . . .		54 66
Welch Bros., for repairing gas fixtures . . . . .		13 62
Whittier Machine Co., for repairing elevator . . . . .		31 20
Auburn Brush Co., for brushes . . . . .		9 43
Adams Hardware and Paint Co., for dusters . . . . .		7 50
C. B. Coburn & Co., for ammonia, dusters, oil, etc . . . . .		51 96
Daniel Gage, for ice . . . . .		129 52
George E. Hutchins, for rubber matting and hose washers . . . . .		18 05
India Alkali Works, for Savogran . . . . .		24 98
O. B. Ranlett, for soap . . . . .		3 00
Simpson & Rowland, for brooms . . . . .		3 75
Amount carried forward . . . . .	\$	662 59

Amount brought forward.....	\$	662 59	
To P. P. Stiles & Co., for Bon Ami .....		2 16	
Adams & Co., for curtains and fixtures .....		60 50	
Bon Marche, for towels ...		2 80	
Cook, Taylor & Co., for cloth and towels .....		14 15	
A. L. Kittredge & Co., for tacks .....		1 24	
Abbott Lawrence, for care of clock and repairing clocks .....		52 00	
O'Donnell & Gilbride Co., for chair, cloth, glasses, fans, etc .....		12 90	
A. G. Pollard & Co., for cloth .....		5 78	
Harry Raynes, for calendar clock .....		4 00	
Henry F. Whiting, for leather .....		35	
J. P. Bradley, for map ....		1 00	
G. C. Prince & Son, for toilet paper and blot- ters .....		17 00	
James P. Slattery, for anti- septic mouth pieces ..		10 00	
Tilton & Company, for stationery .....		6 00	
Joseph Peabody, Agt., for insurance .....		35 00	
Charles R. Preston, for ser- vices tabulating elec- tion returns .....		5 00	
			892 47
Balance to General Treasury Fund .....			407 52
			<u>\$ 1,300 00</u>

## CITY CEMETERIES, LABOR.

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Annual Appropriation .....	\$	5,900 00	
Additional Appropriation .....		27 55	
		<hr/>	\$ 5,927 55

### EXPENDITURES.

Paid Sundry Persons for labor	\$	5,818 10	
		<hr/>	\$ 5,818 10
Balance to General Treasury			
Fund .....			109 45
			<hr/>
			\$ 5,927 55
			<hr/>



## CITY CEMETERIES, NEW FENCE.

Appropriation.....	\$	350 00	
		<u>          </u>	\$ 350 00

### EXPENDITURES.

Paid for SUNDRIES:

To Courier-Citizen Co., for ad- vertising.....	2 70	
Daily News Co., for adver- tising.....	5 63	
Lowell Sun, for advertising	5 62	
Morning Mail Corp., for ad- vertising.....	8 00	
Wm. H. Wiggin, for build- ing and painting fence.	328 05	
	<u>          </u>	\$ 350 00

CITY CEMETERIES, PAINTING FENCE.

Appropriation.....	\$	675 00		
		<u>          </u>	\$	675 00

EXPENDITURES.

Paid G. H. Kirby, for painting fence .....	\$	484 45		
		<u>          </u>	\$	484 45
Balance to General Treasury Fund .....				190 55
				<u>          </u>
				<u><u>\$675 00</u></u>

# CITY CEMETERIES, REPAIRING WALL, SCHOOL STREET CEMETERY.

Appropriation.....	\$	300 00	
		<u>          </u>	\$ 300 00
			<u>          </u>

## EXPENDITURE.

Paid A. H. Kittredge, for mason work and material.....	\$	156 50	
		<u>          </u>	\$ 156 50
Balance to General Treasury Fund .....			143 50
			<u>          </u>
			<u>\$ 300 00</u>

## CITY CEMETERIES, SUNDRIES.

Annual Appropriation .....	\$	1,775 00	
Additional Appropriation .....		1,535 41	
		<hr/>	\$ 3,310 41

### Paid for SUNDRIES:

To Appropriation for Engineering .....	\$	59 00
Appropriation for Water Works, for water .....		50 55
William W. Clark, for expenses, rent of land and barn .....		144 40
Lowell Gas Light Co., for gas .....		10
N. E. Tel. and Teleg. Co., for service .....		46 31
O. A. Libby, for rent of telephone index .....		2 00
Burnham & Davis, for lumber .....		6 60
Davis & Sargent, for lumber .....		3 21
Wm. H. Wiggin, for lumber .....		84 49
Boutwell Bros., for iron ...		3 60
Bartlett & Dow, for hardware and tools .....		89 55
E. P. Flanders & Co., for tools, etc. ....		42 20
Pevey Bros., for castings.		9 54
Amount carried forward .....	\$	541 55

Amount brought forward . . . . .	\$	541 55
To Thompson Hardware Co., for hardware . . . . .		1 40
Charles F. Kappler, for blacksmithing . . . . .		41 75
A. Parsons, for blacksmith- ing . . . . .		9 13
Henry Roper, for filing saws . . . . .		1 85
T. Costello & Co., for fit- tings and labor . . . . .		75
Welch Bros., for repairing fountains, etc. . . . .		17 65
H. H. Wilder & Co., for drinking cups . . . . .		85
C. B. Coburn & Co., for paint, oil, brushes, hose, etc. . . . .		147 74
George E. Hutchins, for hose, oil clothing, rub- ber bands . . . . .		6 07
George E. Maker, for fram- ing plans . . . . .		5 00
J. J. McManmon, for plants and shrubs . . . . .		313 25
J. B. Cover & Co., for hay, oats, and straw . . . . .		91 60
T. J. McDonald, for oats . .		17 17
J. B. Sabre, for meal . . . .		40 60
Vigeant, Dumas & Co., for hay, oats, and straw .		62 05
O. D. Wilder, for hay, oats, and straw . . . . .		118 63
E. Bibeault, for manure . .		39 37
C. A. Gilman, for manure and loam . . . . .		53 50
H. H. Johnson, for ma- nure . . . . .		7 50
Mrs. G. J. Secord, for ma- nure . . . . .		58 50
C. H. Carter, for sod . . . .		20 09
Amount carried forward . . . . .	\$	1,596 00



Amount brought forward . . . .	\$	1,596 00
To R. Wilson Dix, for loam, sod, and gravel . . . . .		917 90
Thomas Egan, for sod . . . .		49 96
Wm. H. Shedd, for sod . . .		88 20
W. N. Thompson, for sod .		199 92
Wm. E. Livingston, for cement . . . . .		9 12
Joseph Mullin, for cement.		2 30
Moore and Bennett Coal Co., for coal . . . . .		10 14
E. A. Wilson & Co., for coal . . . . .		13 65
Virgil G. Barnard, for stamps . . . . .		10 00
Charles F. Coburn, for recording deed . . . . .		1 00
D. H. Gordon, for looking up lots and records . . .		100 00
M. T. Murphy, for repair- ing fence, etc . . . . .		104 62
F. U. Cambridge, for sta- tionery . . . . .		1 60
Thomas H. Lawler, for stationery . . . . .		2 70
J. Merrill & Son, for sta- tionery . . . . .		7 00
G. C. Prince & Son, for stationery . . . . .		50
Sampson, Murdock & Co., for directory . . . . .		2 00
Bigelow & Miller, for print- ing . . . . .		3 50
Thompson & Hill, for printing . . . . .		3 85
George F. Allen, for re- pairing harnesses . . .		23 25
Ebert Harness Co., for re- pairing harness . . . . .		50
Archibald Wheel Co., for dump cart . . . . .		161 50
B. & M. R. R., for trans- portation . . . . .		1 20
	\$	3,310 41

# IMPROVEMENT OF ANNEX TO EDSON CEMETERY.

Appropriation.....	\$	3,500 00	
			\$ 3,500 00

## EXPENDITURES.

Paid for SUNDRIES:

To Sundry persons, for labor	\$	137 04	
Appropriation for Engi- neering.....		88 87	
E. P. Flanders & Co., for hardware.....		5 45	
Wm. H. Wiggin, for build- ing fence.....		799 63	
R. Wilson Dix, for sand and teaming.....		370 00	
E. Duren, for teaming....		11 00	
Joseph Mullin, for manure		111 25	
			\$ 1,523 24
Transferred to General Treas- ury Fund.....			1,000 00
			2,523 24
Balance undrawn Dec. 31, 1900			976 76
			\$ 3,500 00

## CITY CLERK, SALARIES.

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Annual Appropriation .....	\$	4,326 00	
		<hr/>	\$4,326 00
			<hr/>

### EXPENDITURES.

#### Paid SALARIES:

To Girard P. Dadman, City Clerk.....	\$	1,800 00	
William P. McCarthy, Assistant City Clerk .....		1,500 00	
Belle C. Hill, Clerk .....		626 00	
Waldo F. Miles, Clerk ....		10 00	
		<hr/>	3,936 00
Balance to General Treasury Fund .....			390 00
			<hr/>
	\$		4,326 00
			<hr/>

## CITY CLERK, SUNDRIES.

Annual Appropriation .....	\$	1,274 00	
		<hr/>	\$ 1,274 00
			<hr/>

### EXPENDITURES.

Paid for SUNDRIES:

To Mary C. Brennan, for typewriting .....	75
Helen A. Dimon, for type- writing .....	2 65
B. M. and M. E. Hutchins, for typewriting .....	2 20
F. E. Rollins, for typewrit- ing .....	5 00
Girard P. Dadman, for office expenses .....	77 32
N. E. Tel. and Teleg. Co., for service .....	67 05
Smith-Premier Typewriter Co., for repairing type- writer .....	9 40
Bigelow & Miller, for print- ing .....	3 50
Courier - Citizen Co., for printing and advertis- ing .....	43 55
Daily News Co., for adver- tising .....	1 30
Amount carried forward .....	<hr/> \$ 212 72

Amount brought forward . . . . .	\$	212 72		
To O. A. Libby, for printing . . . . .		11 80		
Lowell Sun, for subscrip- tion and advertising . . . . .		7 50		
Morning Mail Corp., for printing, advertising and subscription . . . . .		61 50		
Sunday Telegram, for ad- vertising . . . . .		1 50		
Thompson & Hill, for printing . . . . .		17 25		
W. H. Boody, for posting . . . . .		6 00		
Carter Ink Co., for ink . . . . .		2 25		
Dumas & Co., for blank books . . . . .		115 95		
Thomas H. Lawler, for stationery . . . . .		3 50		
Henry M. Meek, for blank books . . . . .		10 50		
G. C. Prince & Son, for stationery . . . . .		24 79		
Sampson, Murdock & Co., for directory . . . . .		4 00		
Tilton & Co., for stationery . . . . .		2 80		
M. G. Wight & Co., for books . . . . .		11 00		
American Express Co., for transportation . . . . .		4 31		
B. & L. Despatch Express Co., for transportation . . . . .		55		
Manchester and Concord Express Co., for transportation . . . . .		1 85		
		<hr/>	\$	499 77

Paid for REPORTING  
BIRTHS:

To Wm. A. Arnold, Census Enumerator . . . . .		16 70		
James W. Barry, Census Enumerator . . . . .		11 95		
Amounts carried forward . . . . .	\$	28 65	\$	499 77



Amounts brought forward . . . .	\$	28 65	\$	499 77
To Albert Blazon, Census Enumerator . . . . .		22 90		
George E. Caisse, Census Enumerator . . . . .		40 10		
F. P. Coggeshall, Census Enumerator . . . . .		22 10		
Charles F. Going, Census Enumerator . . . . .		21 70		
John A. Herrick, Census Enumerator . . . . .		14 70		
Waldo F. Miles, Census Enumerator . . . . .		21 90		
Frank B. Peabody, Census Enumerator . . . . .		14 20		
Sundry Persons, for re- porting births . . . . .		453 50		
		<hr/>	\$	639 75
Total Expenditure for the year, 1900 . . . . .			\$	1,139 52
Balance to General Treasury Fund . . . . .				134 48
			<hr/>	
			\$	1,274 00
			<hr/>	

## CITY MESSENGER, SALARY.

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Annual Appropriation .....	\$	1,200 00	
		<hr/>	\$ 1,200 00
			<hr/>

### EXPENDITURES.

Paid CITY MESSENGER:

To Francis M. Fagin .....	\$	114 29	
Joseph E. Pattee .....		1,085 71	
		<hr/>	\$ 1,200 00
			<hr/>

## CITY MESSENGER, CARRIAGE HIRE.

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Annual Appropriation .....	\$	50 00		\$	50 00
		<hr/>		<hr/>	<hr/>

### EXPENDITURES.

Paid for CARRIAGE HIRE:

To Middle Street Stable.....	\$	34 00		
P. F. McNulty.....		4 00		
J. E. O'Donnell.....		1 50		
J. H. Sparks .....		6 00		
		<hr/>	\$	45 50
Balance to General Treasury				
Fund .....				4 50
			<hr/>	<hr/>
			\$	50 00
			<hr/>	<hr/>

## CITY MESSENGER, SUNDRIES.

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Annual Appropriation .....	\$	200	00	
Additional Appropriation .....			75	00
			\$	275 00

### EXPENDITURES.

Paid for SUNDRIES:

To N. E. Tel. and Teleg Co.,				
for service .....	\$	65	72	
V. G. Barnard, for stamps		10	50	
B. & M. R. R., for ticket ..		20	00	
Hinckley & May, for lamp				
shade .....			25	
Sampson, Murdock & Co.,				
for directories .....		17	00	
F. S. Blanchard & Co., for				
Mass. Year Book.....		3	00	
C. F. Hatch & Co., for				
boxes.....		8	00	
Thomas H. Lawler, for				
stationery .....		10	25	
G. C. Prince & Son, for				
stationery .....		8	68	
Butterfield Printing Co.,				
for printing.....		7	25	
Courier-Citizen Co., for				
printing .....		12	90	
Amount carried forward.....	\$	163	55	

Amount brought forward.....	\$	163 55	
Morning Mail Corp., for printing .....		42 35	
Union Printing Co., for printing .....		42 13	
Am. Ex. Co., for trans- portation .....		70	
	—————	\$	248 73
Balance to General Treasury Fund .....			26 27
		<u>\$</u>	<u>275 00</u>



## CITY SCALES.

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Annual Appropriation . . . . .	\$ 810 00	
	<hr/>	\$ 810 00
		<hr/>

### EXPENDITURES.

Paid George F. Noonan, Salary	\$ 800 00	
	<hr/>	\$ 800 00
Balance to General Treasury		
Fund . . . . .		10 00
		<hr/>
		\$ 810 00
		<hr/>

## CITY SEALER.

Annual Appropriation .....	\$	410 00	
		<u>          </u>	\$ 410 00

### EXPENDITURES.

Paid for SUNDRIES:

To James R. Fulton, salary	\$	350 00	
Thomas H. Lawler, for stationery .....		5 47	
Courier-Citizen Co., for ad- vertising .....		2 60	
Daily News Co., for adver- tising .....		2 93	
Morning Mail Corp., for advertising .....		2 00	
James Leach, for teaming		47 00	
		<u>          </u>	\$ 410 00

## CITY TREASURER, SALARIES.

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Annual Appropriation .....	\$	7,270 00
Additional Appropriation .....		2 23
		\$ 7,272 23

### EXPENDITURES.

#### Paid SALARIES:

To Charles F. Coburn, City Treasurer and Collec- tor .....	\$	1,912 50
Andrew G. Stiles, City Treasurer and Collec- tor .....		705 00
Andrew G. Stiles, Clerk ..		1,105 59
Joseph Farrell, Clerk ....		1,276 34
Charles C. Wilson, Clerk .		676 67
Florence Gilmore, Clerk ..		588 00
Margaret J. Macdonald, Clerk .....		618 00
		\$ 6,882 10
Transferred to General Treas- ury Fund .....		390 13
		\$ 7,272 23

## CITY TREASURER, SUNDRIES.

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Annual Appropriation . . . . .	\$	3,466 00
Additional Appropriation . . . . .		390 13
		\$ 3,856 13

### EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Public Buildings, Labor, for la- bor . . . . .	\$	63
Appropriation for School Houses, Sundries, for material . . . . .		6 06
N. E. Tel. and Teleg. Co., for service . . . . .		67 25
B. and M. R. R., for ticket.		20 25
Charles F. Coburn, for sundry expenses . . . .		4 00
F. S. Blanchard & Co., for Mass. Year Book . . . .		3 00
Boston News Bureau, for subscription . . . . .		12 00
Banker and Tradesman, for subscription . . . . .		5 00
Sampson, Murdock & Co., for directories . . . . .		4 00
Dumas & Co., for blank books . . . . .		32 00
Lowell Rubber Type Co., for stamp . . . . .		50
Amount carried forward . . . . .	\$	154 69

Amount brought forward . . . . .	\$	154 69	
To Pneumatic Hand Stamp Co., for stamps . . . . .		13 51	
George E. Hutchins, for rubber bands . . . . .		2 40	
G. C. Prince & Son, for stationery . . . . .		68 85	
Tilton & Co., for stationery . . . . .		12 95	
M. G. Wight & Co., for paper . . . . .		2 25	
Buckland Printing Co., for printing . . . . .		22 00	
Courier-Citizen Co., for printing . . . . .		21 25	
H. F. Glidden, for printing . . . . .		12 25	
F. A. M. Tobin, for printing . . . . .		20 00	
W. A. Mack & Co., for filing cases . . . . .		20 00	
E. M. Tucke, for clerk's insurance . . . . .		125 00	
Am. Ex. Co., for transportation . . . . .		30	
Man. and Con. Ex. Co., for transportation . . . . .		15	
		<hr/>	\$ 475 60

## Paid CONSTABLES:

To Enoch Gerrish . . . . .	\$	242 50	
Henry Mercier . . . . .		121 00	
John McManus . . . . .		318 00	
		<hr/>	681 50

## Paid on account of TAXES:

To Butterfield Printing Co., for printing . . . . .	\$	135 00	
Dumas & Co., for Tax Books . . . . .		67 50	

## Paid for writing and distributing tax bills:

To Richard Charlton . . . . .		82 50	
Wilfred Caisse . . . . .		82 50	
Thomas F. Garvey . . . . .		82 50	
Enoch Gerrish . . . . .		65 00	

Amounts carried forward . . . . .	\$	515 00	\$ 1,157 10
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Amounts brought forward . . . .	\$	515 00	\$	1,157 10
To Frank B. Hough . . . . .		85 00		
Thomas J. Johnson . . . . .		82 50		
James Pinder . . . . .		82 50		
Robert L. Read . . . . .		72 50		
Joseph G. Wright . . . . .		67 50		
Enoch N. Grinnell, for ser- vices . . . . .		4 13		
				909 13
Paid on account of TAX SALES. Printing and Advertising:				
To Courier-Citizen Co. . . . .	\$	575 59		
Daily News Co . . . . .		183 35		
Lowell Sun . . . . .		318 85		
Lepine & Co. . . . .		288 85		
Morning Mail Corp. . . . .		321 75		
Sunday Telegram . . . . .		11 48		
Andrew G. Stiles, for re- cording notices, deeds, and affidavits . . . . .		31 50		
Thomas J. Johnson, for services as witness . . . . .		22 50		
Joseph J. Quinn, for rebate of costs and interest . . . . .		75		
J. H. Sparks, for carriage hire . . . . .		27 00		
				1,781 62
Total Expenditure for the year 1900 . . . . .			\$	3,847 85
Balance to General Treasury Fund . . . . .				8 28
			\$	3,856 13

## CLERK, COMMON COUNCIL.

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Annual Appropriation . . . . .	\$	300 00	
		<u>          </u>	\$ 300 00
			<u>          </u>

### EXPENDITURES.

Paid Frank M. Dowling, Clerk	\$	300 00	
		<u>          </u>	\$ 300 00
			<u>          </u>

## COMMONS, SALARIES AND LABOR.

Annual Appropriation .....	\$	9,767 00	
Additional Appropriation .....		356 53	
		<u>          </u>	\$ 10,123 53
Received from Appropriation for Care of City Hall, Sundries, for Labor .....	\$	51 87	
		<u>          </u>	\$ 10,175 40

### EXPENDITURES.

Paid for SALARIES and LABOR:			
To Charles A. Whittet, Sup- erintendent, Salary...	\$	6 57	
John W. W. Tilton, Super- intendent, Salary .....		1,193 43	
		<u>          </u>	\$ 1,200 00
Sundry persons for labor..	\$	8,975 40	
		<u>          </u>	8,975 40
			<u>          </u>
			\$ 10,175 40

## COMMONS, REPAIRING WALKS.

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Appropriation.....	\$	500 00	
		<hr/>	\$ 500 00
			<hr/>

### EXPENDITURES.

Paid E. A. & A. T. Smith, for concreting .....	\$	178 58	
James Walsh, for con- creting .....		249 99	
		<hr/>	\$ 428 57
Balance to General Treasury Fund .....			71 43
			<hr/>
			\$ 500 00
			<hr/>

## COMMONS DEPARTMENT, SUNDRIES.

Annual Appropriation .....	\$	2,033 00	
Additional Appropriation .....		578 00	
		<hr/>	\$ 2,611 00
Received from Appropriation for care of City Hall, Sun- dries, for manure and team- ing .....	\$	38 25	
		<hr/>	38 25
			<hr/>
			<u>\$ 2,649 25</u>

### EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Engi- neering .....	\$	6 13
Appropriation for Public Buildings, for labor and material .....		3 90
Appropriation for School Houses, Sundries, for material .....		36
Appropriation for Water Works, for water....		10 80
Lowell Electric Light Corp., for installing light on North Com- mon .....		5 00
V. G. Barnard, for stamps		2 00
Amasa Pratt & Co., for lumber .....		18 00
		<hr/>
Amount carried forward .....	\$	46 19



Amount brought forward . . . . .	\$	46 19
To Wm. H. Wiggin, for lum- ber . . . . .		37 74
Charles E. Adams, for hardware, glass, etc. . . . .		10 12
Bartlett & Dow, for hard- ware and tools . . . . .		39 08
J. C. Bennett, for ladder and hardware . . . . .		5 50
E. P. Flanders & Co., for hardware . . . . .		42 23
H. B. Shattuck & Son, for saws . . . . .		2 00
Thompson Hardware Co., for paint, etc . . . . .		27 75
E. F. Farrell, for fittings and labor . . . . .		6 00
Charles E. Gee, for repair- ing mowers . . . . .		9 65
Wm. McLarney, for cut- ting pipe . . . . .		25
Jere Ryan for repairing water pot . . . . .		50
J. W. Stewart, for valve and repairing stove . . . . .		17 25
Sweeney & Welch, for re- pairs . . . . .		3 63
H. H. Wilder & Co., for fittings and labor . . . . .		6 50
Welch Bros., for fittings and repairing pump . . . . .		21 30
James Blakely, for black- smithing . . . . .		15 05
Ralph A. Clark, for black- smithing . . . . .		17 00
C. Crevier, for blacksmith- ing . . . . .		56 13
Owen J. Carney & Co., for shoeing horse . . . . .		2 25
John J. Donnelley, for shoeing horses . . . . .		33 00
Cornelius Desmond, Agt., for shoeing horses . . . . .		12 00
H. C. Moore, for shoeing horses . . . . .		6 25
Amount carried forward . . . . .	\$	417 37

Amount brought forward . . . . .	\$	417 37
To Henry Reynolds, for shoe- ing horses . . . . .		36 15
A. L. Butman, for repair- ing harnesses . . . . .		62 05
F. B. Hill & Co., for wagon and repairing . . . . .		388 35
George E. Hutchins, for horse cover . . . . .		3 75
Sawyer Carriage Co., for repairing carriages . . . . .		7 59
J. B. Cover & Co., for grain . . . . .		52 34
G. M. Foster, for hay and straw . . . . .		22 10
C. H. Hanson & Co., for hay . . . . .		114 90
Wm. E. Livingston, for hay, grain and straw . . . . .		30 86
T. J. McDonald, for oats . . . . .		32 82
Vigeant, Dumas & Co., for oats . . . . .		85 83
O. D. Wilder, for hay . . . . .		11 80
Burton Oil Co., for oil . . . . .		1 50
F. H. Butler & Co., for medicine . . . . .		1 30
Frank C. Goodale, for med- icine . . . . .		1 58
Johnson & Garvey, for med- icine . . . . .		24 00
C. B. Coburn & Co., for paint, oil, brushes, etc . . . . .		60 82
Charles Ellis, for barrel . . . . .		75
Charles B. Banks, for pro- fessional services . . . . .		3 00
A. H. McCann, for profes- sional services . . . . .		32 00
Paul R. Burt, for plants . . . . .		5 25
Peter Henderson & Co., for seeds . . . . .		4 43
Whittet & Co., for pansies . . . . .		6 00
James Walsh, for plants and labor . . . . .		154 00
Wm. E. Livingston, for cement . . . . .		8 72
Amount carried forward . . . . .	\$	1,569 26

Amount brought forward . . . . .	\$	1,569 26
To Parker Coal and Wood Co., for coal . . . . .		3 78
Robertson & Co., for re- pairing oil stove . . . . .		50
Staples Bros., for pipe . . . .		79
Maria Chase, for repairing flag . . . . .		1 50
Mrs. F. L. Hodgman, for repairing flag . . . . .		2 00
Harvey C. Derby, for stamp		2 50
Thomas H. Lawler, for stationery . . . . .		1 50
Sampson, Murdock & Co., for directories . . . . .		4 00
Tilton & Company, for sta- tionery . . . . .		4 32
Butterfield Printing Co., for printing . . . . .		49 50
Morning Mail Corp., for printing . . . . .		2 75
Union Printing Co., for printing . . . . .		10 00
Mary C. Brennan, for type- writing . . . . .		1 50
Helen A. Dimon, for type- writing . . . . .		12 50
Parthenais Bros., for rub- ber boots . . . . .		3 20
T. Costello & Co., for man- ure . . . . .		4 00
Richardson's Hotel, for re- freshments . . . . .		18 00
J. E. Conant & Co., for board of horse . . . . .		1 75
Morse Coach Co., for board of horse . . . . .		268 57
Morse Coach Co., for car- riage hire . . . . .		3 00
C. H. Hanson & Co., for use of horse . . . . .		1 00
Sundry persons, for labor on band stand . . . . .		110 69
Amount carried forward . . . . .	\$	2,076 61

Amount brought forward . . . . .	\$	2,076 61	
To James Walsh, for concret- ing at band stand . . . .		100 12	
Wm. H. Wiggin, for erect- ing Band Stand . . . . .		287 00	
		<hr/>	\$ 2,463 73
Balance to General Treasury Fund . . . . .			185 52
			<hr/>
			<u>\$2,649 25</u>

## EXTENSION FORT HILL PARK.

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Appropriation.....	\$	3,000	00	
Additional Appropriation .....			100 00	
			\$	3,100 00

### EXPENDITURES.

#### Paid for SUNDRIES:

To sundry persons for labor.	\$1,648	85	
Appropriation for Engi- neering .....		148 87	
Olmstead Bros., for profes- sional services .....		201 07	
Bartlett & Dow, for hard- ware, tools, etc.....		40 80	
Lewis D. Gumb, for stone work .....		645 00	
Wm. E. Livingston, for ce- ment and sand .....		71 93	
C. Crevier, for blacksmith- ing .....		5 55	
Staples Bros., for pipe ....		25 61	
H. W. Tarbell, for trees ..		17 50	
A. D. Boynton, for sand, teaming and use of horse .....		62 00	
J. W. Stewart, for pipe, fit- tings, labor .....		193 86	
		\$	3,061 04
Balance to General Treasury Fund .....			38 96
			\$ 3,100 00



## ELECTIONS.

Annual Appropriation.....	\$	7,120 00	
		<hr/>	\$ 7,120 00
Received from Charles Littlefield & Co., overdraft .....	\$	9 00	
		<hr/>	9 00
			<hr/>
			<u>\$ 7,129 00</u>

## EXPENDITURES.

Paid for SUNDRIES:

To Sundry persons, for services as State supervisors, 1899 .....	\$	270 00
Sundry persons, for services as election officers .....		3,823 00
Appropriation for Public Buildings, Labor, for labor .....		343 25
Appropriation for Public Buildings, Sundries, for material .....		19 77
Appropriation for Paupers, Almshouse, for wood ..		31 84
Appropriation for School Houses, Labor, for labor .....		387 00
N. E. Tel. and Teleg. Co., for service .....		2 01
		<hr/>
Amount carried forward .....	\$	4,876 87

Amount brought forward.....	\$	4,876 87
To G. P. Dadman, for sundry expenses .....		12 25
Pratt & Forrest, for lumber .....		17 85
Adams Hardware and Paint Co., for tarred paper and lock .....		31 23
W. T. S. Bartlett, for pencils .....		15 00
H. B. Shattuck & Son, for paper, pencils, and tacks .....		10 65
Thompson Hardware Co., for hardware .....		1 41
Farrell & Conaton, for fittings and labor .....		4 80
C. H. McKenney & Co., for lamps and fittings ....		74 08
H. C. Moore, for making irons .....		8 20
C. B. Coburn & Co., for candles, oil, and can..		32 37
Crystal Oil Co., for oil....		4 63
Simpson & Rowland, for chimneys .....		3 50
Commonwealth of Mass., for ballot boxes .....		250 00
C. F. Hatch & Co., for boxes		16 44
George E. Hutchins, for stamps and bands ....		11 70
Charles Littlefield & Co., for repairing boxes, etc.		20 90
G. C. Prince & Son, for stationery .....		10 30
Helen A. Dimon, for typewriting .....		5 80
B. M. and M. E. Hutchins, for typewriting .....		2 75
Butterfield Printing Co., for printing .....		33 50
Courier-Citizen Co., for printing and advertising .....		143 90
Amount carried forward.....	\$	5,588 13

Amount brought forward . . . . .	\$	5,588	13	
To Daily News Co., for advertising . . . . .		16	25	
H. F. Glidden, for printing . . . . .		13	35	
Lowell Sun, for printing and advertising . . . . .		12	00	
Lepine & Co., for advertising . . . . .		20	00	
Morning Mail Corp., for printing and advertising . . . . .		350	53	
Sunday Telegram, for advertising . . . . .		15	30	
The Bigelow Press, for printing . . . . .		14	00	
W. H. Emery, for posting . . . . .		10	00	
H. F. Felton, Agt., for rent of property for polling booth . . . . .		50	00	
C. F. Keyes, for rent of B. & M. depot for polling booth . . . . .		15	00	
J. F. Puffer, for rent of land . . . . .		25	00	
J. H. Sparks, for carriage hire . . . . .		12	70	
American Express Co., for transportation . . . . .		1	80	
Sundry persons, care of ward rooms . . . . .		74	25	
John J. Carrigg, clerk . . . . .		12	50	
Edwards Cheney, clerk . . . . .		40	00	
Waldo F. Miles, clerk . . . . .		13	75	
Frank B. Peabody, clerk . . . . .		30	00	
Arthur F. Salmon, clerk . . . . .		42	50	
Sundry persons, teaming election booths and ballot boxes . . . . .		335	50	
				6,692 56
Transferred to General Treasury Fund . . . . .				436 44
				<u>\$7,129 00</u>

## REGISTRARS, SALARIES AND CLERK HIRE.

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Annual Appropriation .....	\$	2,700 00	
Additional Appropriation .....		52 50	
		<hr/>	\$ 2,752 50

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### EXPENDITURES.

#### Paid REGISTRARS:

To Girard P. Dadman .....	\$	550 00	
Edwards Cheney .....		550 00	
John P. Farley .....		550 00	
James F. Owens .....		550 00	
		<hr/>	\$ 2,200 00

#### Paid CLERKS:

To W. A. Arnold .....	\$	58 75	
John J. Carrigg .....		211 25	
Frank M. Dowling .....		13 75	
James T. Dunfey .....		56 25	
Waldo F. Miles .....		73 75	
James F. McCarty .....		57 50	
Frank B. Peabody .....		81 25	
		<hr/>	552 50
			<hr/>
			\$ 2,752 50

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## REGISTRARS, SUNDRIES.

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Annual Appropriation .....	\$	830	00	
Additional Appropriation .....		200	00	
				\$ 1,030 00

### EXPENDITURES.

Paid for SUNDRIES:

To John Carter & Co., for paper	\$	94	73	
Dumas & Co., for blank books and binding....		84	05	
Lowell Rubber Type Co., for stamps .....		7	50	
Sampson, Murdock & Co., for directories .....		4	00	
Courier-Citizen Co., for advertising and printing		641	15	
Daily News Co., for advertising .....		1	30	
Lepine & Co., for advertising .....		3	00	
Lowell Sun, for advertising		1	50	
Morning Mail Corp., for advertising and printing .....		38	00	
Union Printing Co., for printing .....		21	60	
W. H. Emery, for posting		15	00	
Merrimac House, for posting .....		15	00	
Amount carried forward .....	\$	926	83	



Amount brought forward . . . . .	\$	926 83	
To W. H. Spalding & Co., for posting check lists . . .		4 25	
B. M. and M. E. Hutchins, for typewriting . . . . .		6 88	
D. L. Page Co., for refresh- ments . . . . .		29 38	
		<hr/>	\$ 967 34
Balance to General Treasury Fund . . . . .			62 66
			<hr/>
			<u>\$ 1,030 00</u>

## ENGINEERING.

Annual Appropriation .....	\$ 7,500 00	
	<hr/>	\$ 7,500 00
Received from sundry depart- ments for Engineering	8,957 18	
	<hr/>	8,957 18
		<hr/>
		\$ 16,457 18
		<hr/>

## EXPENDITURES.

Paid George Bowers, City Engineer, Salary .....	\$ 2,700 00	
	<hr/>	\$ 2,700 00
Paid Sundry persons, for ser- vices .....	\$ 12,144 53	
	<hr/>	13,144 53

### Paid for SUNDRIES:

To N. E. Tel. and Teleg. Co., for sundries .....	\$ 53 74	
George Bowers, for sundry expenses .....	14 04	
Wm. A. Favor, for sundry expenses .....	6 16	
Charles R. Preston, for repairing sewer ma- chine and expenses to Merrimac .....	3 18	
V. G. Barnard, for stamps	7 00	
	<hr/>	
Amounts carried forward .....	\$ 84 12	\$ 15,844 53

Amounts brought forward . . . .	\$	84 12	\$	15,844 53
To Helen A. Dimon, for type- writing . . . . .		1 80		
J. C. Bennett, for baskets.		80		
C. L. Berger & Sons, for repairing instruments		17 95		
George L. Cady & Sons, for labor on clamps..		9 90		
J. S. Mason & Co., for nickle numbers . . . . .		26 04		
O. A. Richardson's Sons, for repairing tape . . . .		2 25		
H. B. Shattuck & Son, for tracing cloth, blue print, ink, etc . . . . .		11 90		
Thompson Hardware Co., for tools . . . . .		4 00		
City Government Pub- lishing Co., for sub- scription . . . . .		3 00		
Engineering Magazine, for subscription . . . . .		3 00		
Engineering Record, for subscription . . . . .		5 00		
Municipal Engineering Co., for subscription . . . .		2 00		
Courier-Citizen Co., for printing . . . . .		2 50		
Dumas & Co., for blank books . . . . .		24 25		
H. R. Guild, for drafting paper . . . . .		8 80		
Thomas Groom & Co., for stationery . . . . .		5 50		
Hooper, Lewis & Co., for books . . . . .		5 00		
A. L. Kittredge & Co., for blue prints, glue, pa- per, etc . . . . .		53 61		
Thomas H. Lawler, for sta- tionery . . . . .		16 20		
O. A. Libby, for printing.		3 90		
Library Bureau, for index cards . . . . .		3 50		
Amounts carried forward . . . .	\$	295 02	\$	15,844 53

Amounts brought forward . . . .	\$	295 02	\$	15,844 53
To Lufkin Rule Co., for paper		11 79		
G. G. Ledder, for rules . . .		3 00		
G. C. Prince & Son, for stationery . . . . .		13 15		
Smith-Premier Typewriter Co., for repairing typewriter . . . . .		2 00		
Sampson, Murdock & Co., for directories and maps . . . . .		8 20		
Tilton & Co., for stationery		3 75		
M. G. Wight & Co, for note books . . . . .		8 00		
J. S. F. Huddlestone, for thermometer . . . . .		3 00		
George Nelson, for photographs . . . . .		10 55		
C. B. Coburn & Co., for soap and transfer paper . . .		1 30		
Adams & Co., for desk . . .		44 00		
Charles N. Bacon, for felt.		1 25		
D. W. Parker, for bells and repairing harness . . .		5 75		
Sawyer Carriage Co., for repairing carriages . . .		58 65		
B. & M. R. R., for ticket . .		20 25		
Mrs. D. P. Farmer, for rent of stable . . . . .		12 00		
J. H. Sparks, for carriage hire . . . . .		5 00		
American Express Co., for transportation . . . . .		1 20		
				507 86
			\$	16,352 39
Balance to General Treasury Fund . . . . .				104 79
			\$	16,457 18

## FIRE DEPARTMENT, SALARIES.

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Annual Appropriation .....	\$	100,125 00
Additional Appropriation .....		445 49
		\$ 100,570 49

### EXPENDITURES.

#### Paid PERMANENT MEN:

To Edward S. Hosmer, Chief		
Engineer .....	\$	2,000 00
James F. Norton, Assistant		
Engineer .....		1,400 00
Sundry persons, firemen..		76,391 32
		\$ 79,791 32

#### Paid CALL MEN:

To George F. Salmon, Assist-		
ant Engineer .....	\$	400 00
Edward Meloy, Assistant		
Engineer .....		400 00
Henry W. Burton, Assist-		
ant Engineer .....		400 00
James F. Norton, Assist-		
ant Engineer .....		79 17
Sundry persons, firemen..		19,500 00
		20,779 17
		\$ 100,570 49



## FIRE DEPARTMENT, SUNDRIES.

Annual Appropriation .....	\$	19,875 00	
Additional Appropriation.....		388 50	
		<hr/>	\$ 20,263 50
Received from C. K. Hammond for overdraft.....	\$	85	
		<hr/>	85
			<hr/>
			<u>\$ 20,264 35</u>

### EXPENDITURES.

#### Paid for FUEL:

To Wm. Kittredge Co.....	\$	5 00	
Moore & Bennett Coal Co..		1,922 56	
Parker Coal and Wood Co.		3 00	
Stanley & Co.....		33 13	
E. A. Wilson & Co.....		16 00	
J. G. Gordon, for weighing coal .....		32 50	
		<hr/>	\$ 2,012 19

#### Paid for HAY, GRAIN, etc:

To Ame & Co.....	\$	22 50	
D. H. Blake .....		786 27	
J. B. Cover .....		457 40	
W. P. Foye & Co.....		8 40	
G. M. Foster.....		704 11	
C. H. Hanson & Co .....		1,064 36	
Wm. E. Livingston.....		4 80	
T. J. McDonald.....		1,058 39	
		<hr/>	
Amounts carried forward .....	\$	4,106 22	\$ 2,012 19

Amounts brought forward.....	\$	4,106 22	\$	2,012 19
To H. E. Noyes & Son .....		218 77		
J. B. Sabre .....		200 56		
Vigeant, Dumas & Co .....		257 35		
O. D. Wilder .....		562 37		
		<hr/>		5,345 28

Paid for HORSES, CAR-  
RIAGES, HARNESSES,  
etc:

To A. L. Butman .....	\$	50 35		
Robert Barris .....		18 15		
Charles E. Berry .....		50 01		
A. H. Cluer .....		53 95		
H. F. Ebert .....		24 55		
Elbert Harness Co .....		142 25		
G. K. Hammond .....		6 30		
Wm. H. Josselin .....		15 00		
C. N. Perkins & Co .....		136 50		
D. W. Parker .....		3 90		
C. H. Hanson & Co .....		1,864 70		
E. P. Bryant .....		86 29		
S. K. Buel .....		4 30		
Fay Bros. & Hosford .....		764 77		
F. B. Hill & Co .....		112 10		
Manchester Locomotive Works .....		9 00		
Sawyer Carriage Co .....		654 33		
J. H. Swett .....		39 73		
George H. Taylor .....		13 20		
Peter J. Boland .....		40 28		
Peter J. Boland, Est .....		20 58		
James Blakely .....		11 37		
Ralph A. Clark .....		96 25		
Owen J. Carney & Co .....		113 00		
John H. Collins .....		25 03		
Cahill Bros .....		233 45		
O. K. Dexter .....		34 24		
Cornelius Desmond, Agt..		176 50		
John J. Donnelly .....		166 60		
Foster & Saunders .....		17 05		
Foster & Baron .....		41 50		
T. F. Fennessy .....		22 00		
Charles F. Kappler .....		25		
		<hr/>		
Amounts carried forward.....	\$	5,047 48	\$	7,357 47

Amounts brought forward.....	\$	5,047 48	\$	7,357 47
To M. V. B. Libbey .....		174 25		
H. C. Moore .....		81 96		
George R. Morse.....		16 05		
Morse & Blakely .....		15 50		
C. H. McGraw .....		26 00		
A. Parsons .....		112 58		
Henry Reynolds.....		62 00		
J. W. Seeton .....		15 27		
S. A. Shattuck .....		21 62		
J. F. Williamson.....		110 15		
C. H. Ward .....		28 25		
		<hr/>		5,711 11

## Paid for SUNDRIES:

To Appropriation for Water Works, for Water ....	\$	395 94		
Virgil G. Barnard for stamps .....		5 00		
Lowell Gas Light Co., for gas .....		1,171 00		
Lowell Gas Light Co., for meter connection ....		1 00		
Lowell Electric Light Corp. for power.....		333 40		
N. E. Tel. and Teleg. Co., for service .....		254 53		
N. E. Tel. and Teleg. Co., for wire and repairing		14 99		
Lowell Index Co., for rent of index .....		2 00		
Burnham & Davis, for lumber .....		5 00		
Amasa Pratt & Co., for lumber .....		3 92		
Pratt & Forrest, for lumber .....		2 10		
Wm. H. Wiggin, for lumber		2 55		
Charles E. Adams, for hardware, etc .....		7 85		
Adams Hardware and Paint Co., for hardware		3 22		
W. T. S. Bartlett, for hardware.....		40 95		
		<hr/>		
Amounts carried forward.....	\$	2,243 45	\$	13,068 58

Amounts brought forward . . . .	\$	2,243 45	\$	13,068 58
To Bartlett & Dow, for hardware . . . . .		2 05		
Boutwell Bros., for iron . . .		74		
H. B. Shattuck & Son, for flue brush . . . . .		9 49		
Thompson Hardware Co., for hardware and tools . . . . .		21 35		
J. J. Adams, for filing saws . . . . .		3 39		
H. R. Barker Mfg. Co., for pipe, fittings, labor, etc. . . . .		297 76		
Beaudette & Co., for sharpening clippers . . . . .		1 00		
Boston Electric Co., for repairing automatics . . . . .		4 70		
Cornelius Callahan for hose . . . . .		1,300 00		
W. E. Decrow, for repairing boxes . . . . .		18 15		
Derby & Morse, for electrical supplies and labor . . . . .		34 58		
T. Draper's Sons, for valve facers . . . . .		25 00		
Eagle Foundry Co., for castings . . . . .		6 30		
F. M. Ferrin, for cable . . . . .		92 60		
Frost and Adams Co., for metallic tape . . . . .		4 20		
Josiah Gates & Sons, for repairing hose . . . . .		8 45		
Gilmore Tube Scraper Co., for tube scraper . . . . .		1 19		
Holtzer-Cabot Electric Co., for repairing burners . . . . .		2 05		
Wm. H. Hope & Co., for bolts and washers . . . . .		17 51		
C. G. King, for enameling bath tubs . . . . .		45 00		
A. Ivan Laughton, for labor and material . . . . .		19 25		
D. Lovejoy & Son, for springs . . . . .		8 13		
Linwood Boyce, for climbers . . . . .		5 00		
Lowell Rubber Co., for nozzles . . . . .		4 25		
Amounts carried forward . . . .	\$	4,175 59	\$	13,068 58

Amounts brought forward . . . .	\$	4,175 59	\$	13,068 58
To W.A. Mack & Co., for tubes, oil can, etc. . . . .		2 98		
Thomas Mather, for unions . . . . .		2 10		
Mdsx. Machine Co., for fittings . . . . .		64		
Pevey Bros., for castings . . . . .		25		
Rice & Co., for stall guards . . . . .		8 00		
Tucke & Parker, for wire, insulators, etc. . . . .		242 40		
Union Brass Foundry, for castings . . . . .		8 84		
Union Iron Foundry, for castings . . . . .		25		
Welch Bros., for pipe, fittings, and labor . . . . .		3 12		
Henry F. Whiting, for lacing . . . . .		90		
Charles E. Adams, for paint, medicine, etc. . . . .		11 28		
Adams Hardware and Paint Co., for pails, brushes, etc. . . . .		35 85		
W.H. Burnes & Co., for soap . . . . .		13 75		
Burton Oil Co., for oil . . . . .		6 00		
C. B. Coburn & Co., for hose, brushes, paint, etc. . . . .		322 77		
Walter Coburn & Co., for waste . . . . .		53 86		
Crystal Oil Co., for oil . . . . .		131 29		
Charles E. Carter, for medicine . . . . .		5 25		
C. H. Hanson & Co., for soap . . . . .		7 20		
C. H. Hibbert, for soap . . . . .		1 25		
George E. Hutchins, for cement . . . . .		75		
A. L. Kittredge & Co., for shades and fixtures . . . . .		35 94		
Lowell Rubber Co., for sprinklers . . . . .		1 28		
John G. Lesure, for medicine . . . . .		24 00		
Amounts carried forward . . . .	\$	5,095 54	\$	13,068 58



Amounts brought forward . . . .	\$	5,095 54	\$	13,068 58
C. N. Perkins & Co., for hose pipe, smoke pro- tectors, bottles, etc. . . .		75 00		
Pulsifer Chemical Co., for healer . . . . .		8 00		
O. B. Ranlett, for matches.		5 50		
Savena Mfg. Co., for Save- na . . . . .		18 60		
Simpson & Rowland, for castile soap . . . . .		22 00		
Caleb L. Smith, for matches		5 50		
Talbot Dyewood and Chem- ical Co., for sal ammo- niac, vitriol, etc. . . . .		151 76		
E. J. Whitman, for soap..		28 80		
Adams & Co., for furniture		89 00		
Auburn Brush and Mop Co., for mops and brushes.		15 00		
Bon Marche Dry Goods Co., for bed spreads . . . . .		13 95		
Cook, Taylor & Co., for blankets and towels..		49 50		
C. W. Durant, for badges and insignia . . . . .		15 30		
John J. Doherty, for mat- tresses . . . . .		12 12		
Gleason & Bailey Mfg. Co., for aluminum hat. . . . .		4 15		
George E. Hutchins, for rubber washers . . . . .		1 00		
E. Hapgood & Son, for mattresses . . . . .		25 40		
Abbott Lawrence, for sheet silver and repairing clocks . . . . .		10 90		
George E. Maker, for mir- rors . . . . .		5 00		
O'Donnell & Gilbride Co., for furnishings. . . . .		44 04		
Mdsx. Company, for cloth.		162 50		
A. G. Pollard & Co., for comforters. . . . .		10 80		
Scripture's Laundry, for laundrying . . . . .		118 28		
Amounts carried forward . . . .	\$	5,987 64	\$	13,068 58

Amounts brought forward....	\$	5,987 64	\$	13,068 58
To V. G. Barnard, for stamps		4 00		
Courier - Citizen Co., for printing .....		5 25		
Morning Mail Corp., for printing .....		11 00		
Sampson, Murdock & Co., for directory .....		2 00		
The Bigelow Press, for printing .....		11 25		
Tilton & Company, for sta- tionery .....		50		
Thompson & Hill, for print- ing .....		5 75		
Union Printing Co., for printing .....		117 20		
E. S. Hosmer, for sundry expenses .....		105 20		
American House, for re- freshments .....		6 50		
F. E. Putnam, for refresh- ments .....		3 00		
B. and M. R. R., for ticket		20 25		
Coburn & Crosby, for mor- tar .....		4 00		
A. W. Baker, for profes- sional services .....		68 00		
Charles E. Munn, for pro- fessional services .....		272 00		
J. H. Sparks, for profes- sional services and medicine .....		53 00		
Jesse A. Viles, for pro- fessional services ....		66 00		
Charles R. Wood, for profes- sional services .....		18 00		
Fred W. Jenness, for past- uring horses .....		42 00		
Lawndale Farm, for board- ing horse .....		17 38		
P. S. Webster, for storing sleigh .....		6 00		
C. H. Hanson & Co., for use of horses .....		262 50		
Amounts carried forward .....	\$	7,088 42	\$	13,068 58

Amounts brought forward ...	\$	7,088 42	\$ 13,068 58
To J. H. Sparks, for carriage hire and board of horses		96 00	
American Express Co., for transportation .....		6 20	
B. and L. Des. Ex. Co., for transportation .....		45	
B. and M. R. R., for trans- portation .....		75	
N. Y. and B. Des. Ex. Co., for transportation ....		3 20	
N. Y. N. H. and H. R. R. Co., for transportation		75	
		<hr/>	\$ 7,195 77
			<hr/>
			<u>\$ 20,264 35</u>

# PLACING WIRES OF FIRE DEPARTMENT UNDERGROUND.

Appropriation.....	\$ 10,000 00	
	<hr/>	<u>\$ \$10,000 00</u>

## EXPENDITURES.

Paid for SUNDRIES:

To E. S. Hosmer, for expenses to Worcester.....	6 38	
Burnham & Davis, for lum- ber .....	8 00	
Amasa Pratt & Co., for lumber .....	70	
H. R. Barker Mfg. Co., for pipe, fittings, etc .....	1,033 77	
W. E. Decrow, for boxes, posts, and repairing ..	1,300 16	
Lowell Machine Shop, for castings.....	60	
Thompson Hardware Co., for hardware .....	11 15	
C. B. Coburn & Co., for bronze and glass.....	1 55	
N. E. Tel. and Teleg. Co., for labor and material	649 18	
N. Y. and B. Des. Ex. Co., for transportation....	1 25	
N. Y. N. H. and H. R. R. Co., for transportation	14 15	
	<hr/>	\$ 3,026 89
Balance undrawn, Dec. 31, 1900		6,973 11
		<u>\$ 10,000 00</u>

## FISH WARDEN.

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Annual Appropriation . . . . .	\$	40 00		\$	40 00
		<hr/>		<hr/>	<hr/>
Paid George T. Spence, Fish Warden . . . . .	\$	40 00		\$	40 00
		<hr/>		<hr/>	<hr/>



## HEALTH OFFICE, SALARIES.

Annual Appropriation .....	\$ 8,763 00	
	<u>                    </u>	<u>\$ 8,763 00</u>

### EXPENDITURES.

#### Paid BOARD OF HEALTH:

To Edmund H. Packer.....	\$ 500 00	
George W. Fifield .....	500 00	
Thomas J. Mulligan.....	198 92	
John H. McGuinness .....	301 08	
	<u>                    </u>	\$ 1,500 00
Paid Thomas B. Smith, M. D., for services as bacteriol- ogist .....	\$ 600 00	
	<u>                    </u>	600 00
Sundry persons, for ser- vices.....	\$ 6,597 00	
	<u>                    </u>	6,597 00
		<u>                    </u>
		\$ 8,697 00
Balance to General Treasury Fund .....		66 00
		<u>                    </u>
		<u>\$ 8,763 00</u>

## HEALTH OFFICE, SUNDRIES.

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Annual Appropriation .....	\$	1,237 00
Additional Appropriation .....		90 72
		\$ 1,327 72

### EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Public Buildings, Labor, for labor .....		4 76
Appropriation for Public Buildings, Sundries, for material .....		94
Appropriation for School Houses, Sundries, for material .....		2 47
N. E. Tel. and Teleg. Co., for service .....	129	18
V. G. Barnard, for stamps	6	00
B. and M. R. R., for mileage tickets .....	40	00
H. H. Knapp, Agt., for expenses .....	13	50
F. A. Bates, for rent of P. O. box .....	1	00
Wm. A. Johnson, for services .....	342	00
E. G. Livingston, for services .....	2	00
Thomas B. Smith, for services .....	25	00
Amount carried forward .....	\$	566 85

Amount brought forward.....	\$	566 85
To W. T. S. Bartlett, for re- pairing typewriter...		5 50
John Callahan, for dish pans and pails.....		6 13
E. P. Flanders & Co., for sprayer and tunnel...		1 50
George E. Hutchins, for acid pail.....		5 00
Leighton Bros., for brass lamps.....		1 50
O'Donnell & Gilbride Co., for jugs, baskets, cof- fee pots, etc.....		3 10
Scott & O'Day, for pocket torches.....		1 25
Tucke & Parker, for ex- change of lamps.....		1 50
E. D. Taylor Co., for fumi- gators.....		25 00
Wm. H. Wiggin, for lumber		18 40
O. B. Ranlett, for soap...		6 25
Talbot Dyewood and Chemical Co., for acid and tubes.....		8 51
H. M. Alexander & Co., for vaccine points.....		25 00
C. F. Blanchard for medi- cine.....		40
Charles E. Carter, for al- cohol.....		1 40
Eimer & Amend, for bac- teriologists' supplies.		51 17
F. H. Butler & Co., for antiseptic tablets.....		1 75
Ellingwood & Co., for vac- cine points.....		2 26
Peter Gray, for tube boxes		10 00
Leach & Green, for tongue depressors and syringe		3 00
Lowell Pharmacy, for vac- cine lymph.....		2 00
H. K. Mulford Co., for vac- cine lymph.....		33 50
Amount carried forward.....	\$	780 97

Amount brought forward . . . . .	\$	780 97
To National Vaccine Establish- ment, for points . . . . .		12 00
Randall Faichney Co., for syringes . . . . .		15 75
W. C. Wright, for serum tubes . . . . .		35 00
Herbert E. Webster & Co., for bottles . . . . .		5 12
Dumas & Co., for blank books . . . . .		19 50
Hammond Typewriter Co., for shields and carbon		1 00
C. F. Hatch & Co., for cards		9 00
Hooper, Lewis & Co., for record book . . . . .		3 75
Thomas H. Lawler, for stationery . . . . .		37 95
Lynn Platinum Pen Co., for pens . . . . .		1 50
Municipal Engineering Co. for subscription . . . . .		2 00
City Government Publish- ing Co., for subscrip- tion . . . . .		3 00
G. C. Prince & Son, for stationery . . . . .		13 41
Sampson, Murdock & Co., for directories . . . . .		4 00
Tilton & Company, for sta- tionery . . . . .		2 05
Buckland Printing Co., for printing . . . . .		9 50
Courier-Citizen Co., for printing and advertis- ing . . . . .		13 25
O. A. Libby, for printing .		56 77
Lepine & Co., for advertis- ing . . . . .		6 25
Morning Mail Corp., for printing . . . . .		24 50
Thorpe & Bailey, for print- ing . . . . .		6 20
Union Printing Co., for printing . . . . .		90 21
Amount carried forward . . . . .	\$	1,152 68

Amount brought forward . . . . .	\$ 1,152 68	
To Lysander Orphanus, for painting fence . . . . .	3 00	
C. B. Coburn & Co., for al- cohol, copperas, etc . . .	27 62	
Merrimack Clothing Co., for overalls . . . . .	75	
Lowell Hospital Associa- tion, for board and medical attendance for Edward Deering . . . . .	18 57	
Mass. Ass'n. Boards of Health, for assessment	1 50	
H. H. Wilder & Co., agate boiler . . . . .	3 25	
Connors Bros., for use of horse . . . . .	110 50	
Morse Coach Co., for car- riage hire . . . . .	1 40	
J. H. Sparks, for carriage hire . . . . .	1 40	
Am. Ex. Co., for transpor- tation . . . . .	3 55	
N. Y. and B. Des. Ex. Co., for transportation . . . .	3 50	
	<hr/>	\$ 1,327 72



## HEALTH DEPARTMENT, YARD, LABOR.

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Annual Appropriation .....	\$	26,580 00	
Additional Appropriation .....		532 00	
		<u>          </u>	\$ 27,112 00

### EXPENDITURES.

Paid sundry persons for labor.	\$	27,108 90	
		<u>          </u>	\$ 27,108 90
Balance to General Treasury			
Fund .....			3 10
			<u>          </u>
			\$ 27,112 00

## HEALTH DEPARTMENT, YARD, SUN- DRIES.

Annual Appropriation .....	\$	4,420 00	
Additional Appropriation .....		4,712 49	
		<hr/>	\$ 9,132 49
			<hr/>

### EXPENDITURES.

Paid for FUEL:

To Conners Bros.....	\$	4 75	
Daniel Gage.....		14 72	
F. H. Farmer.....		6 19	
Moore & Bennett Coal Co.		72 33	
N. E. Gas and Coke Co....		67 85	
E. A. Wilson & Co.....		95 78	
		<hr/>	\$ 261 62

Paid for HAY, GRAIN, etc.:

To Ame & Co.....	\$	22 50	
J. B. Cover & Co.....		546 08	
W. A. Dickinson .....		7 42	
G. M. Foster.....		220 84	
C. H. Hanson & Co.....		32 76	
J. B. Sabre.....		19 90	
Vigeant, Dumas & Co....		566 90	
O. D. Wilder.....		826 88	
		<hr/>	2,243 28

Paid for HORSES, CAR-  
RIAGES, HARNESS-  
ES, etc.:

To Adams Hardware and Paint Co.....	\$	1 40	
		<hr/>	
Amounts carried forward.....	\$	1 40	\$ 2,504 90

Amounts brought forward . . . .	\$	1 40	\$	2,504 90
To Archibald Wheel Co. . . . .		3 45		
American Pad Co. . . . .		12 75		
Boutwell Bros. . . . .		239 92		
A. L. Butman . . . . .		146 31		
T. M. Bolton . . . . .		30 00		
A. H. Cluer . . . . .		37 50		
Cahill Bros. . . . .		35		
Charles Clapp . . . . .		335 00		
Donovan Harness Co. . . . .		122 23		
John J. Donnelly . . . . .		2 25		
Ebert Harness Co. . . . .		17 90		
Fay Bros. & Hosford . . . . .		27 60		
C. H. Hanson & Co. . . . .		235 75		
L. S. Kimball . . . . .		13 10		
C. F. Keyes . . . . .		213 00		
Noyes & Furbish . . . . .		4 00		
D. W. Parker . . . . .		1 00		
Sawyer Carriage Co. . . . .		69 15		
				1,512 66

## Paid for SUNDRIES:

To Appropriation for Water Works, for water . . . .	\$	98 53		
Appropriation for Water Works, for valves . . . .		1 25		
Lowell Gas Light Co., for gas . . . . .		108 50		
N. E. Tel. and Teleg. Co., for service . . . . .		52 42		
Burnham & Davis, for lumber . . . . .		121 36		
J. T. Carter & Co., for lumber . . . . .		2 28		
Wm. H. Wiggin, for lumber		106 60		
Chas. E. Adams, for hardware and tools . . . . .		32 74		
Adams Hardware and Paint Co., for hardware . . . .		5 79		
Bartlett & Dow, for hardware . . . . .		10 43		
W. T. S. Bartlett, for hardware . . . . .		55		
J. C. Bennett, for hardware		21 60		
Amounts carried forward . . . .	\$	562 05	\$	4,017 56

Amounts brought forward.....	\$	562 05	\$	4,017 56
To Henry C. Girard, for hardware.....		1 30		
H. B. Shattuck & Son, for hardware .....		19 92		
H. R. Barker Mfg. Co., for pipe, fittings, etc.....		10 96		
Globe File Works, for files .....		3 00		
George E. Hutchins, for hose and pipe .....		10 30		
W. A. Mack & Co., for chimney cap, labor and material .....		27 20		
Jas. Woodward, for wrench .....		1 00		
C. Zimmer, for key.....		20		
Adams Hardware and Paint Co., for paint and waste .....		1 43		
Burton Oil Co., for oil ....		3 00		
C. F. Blanchard, for liniment .....		4 00		
Charles E. Carter, for liniment .....		4 50		
Carleton & Hovey, for medicine.....		1 00		
C. B. Coburn & Co., for rope, oil, etc.....		39 67		
Ellingwood & Co., for medicine.....		50		
John J. Farrell, for medicine .....		4 50		
E. P. Flanders & Co., for oil .....		3 45		
Daniel Gage, for ice .....		12 24		
C. H. Hanson & Co., for soap.....		4 50		
George E. Hutchins, for gloves and hose.....		6 34		
Johnson & Garvey, for condition powers .....		18 00		
O. B. Ranlett, for soapine and brushes .....		1 20		
Caleb L. Smith, for soap ..		4 63		
Simpson & Rowland, for soap .....		4 46		
Amounts carried forward.....	\$	749 35	\$	4,017 56

Amounts brought forward....	\$	749 35	\$	4,017 56
To Talbot Dyewood and Chemical Co., for bottles and corks .....		2 50		
H. F. Glidden, for postal cards and printing ...		17 35		
Thomas H. Lawler, for stationery .....		1 00		
G. C. Prince & Son, for stationery .....		5 75		
Tilton & Company, for rubber bands.....		75		
George H. Page, for repairing clock.....		1 00		
George E. Hutchins, for gloves .....		1 33		
Lowell Rubber Co., for hose and couplings ..		4 00		
S. C. Mussey, for laundering		9 28		
H. C. McOsker, for shades		80		
O'Sullivan Bros., for rubber boots .....		6 00		
J. W. Bennett, for repairing pest house.....		43 74		
Fred A. Bates, for stove ..		15 00		
Spencer & Co., for signs ..		1 56		
Fred C. Church, for insurance .....		60 00		
Thomas C. Lee, for insurance .....		60 00		
A. W. Baker, for professional services.....		26 00		
W. A. Sherman, for professional services.....		47 50		
American Bolt Co., for damage to wagon ....		7 24		
H. H. Johnson, for damage to fence.....		12 00		
W. F. Parker, for painting cremator stack .....		10 00		
Connors Bros., for use of horses .....		357 21		
C. H. Hanson & Co., for use of horse .....		3 00		
Amounts carried forward....	\$	1,442 36	\$	4,017 56



Amounts brought forward . . . .	\$	1,442 36	\$	4,017 56
To Morse Coach Co., for clipping horses . . . . .		4 00		
B. and M. R. R., for transportation . . . . .		25		
Hill Transfer Co., for transportation . . . . .		35		
		<hr/>	\$	1,446 96

Paid on ACCOUNT OF  
SMALL POX:

To Appropriation for Engineering . . . . .	\$	5 00		
Appropriation for Paupers Almshouse, for food for patients and attendants at pest house . . . . .		258 50		
H. M. Alexander & Co., for vaccine points . . . . .		180 00		
F. H. Butler & Co., for medicine . . . . .		90		
Charles E. Carter, for medicine . . . . .		35 28		
Ellingwood & Co., for medicine . . . . .		286 98		
Lowell Pharmacy, for medicine . . . . .		11 30		
H. K. Mulford Co., for vaccine point . . . . .		31 00		
P. Brunnelle, for professional services . . . . .		102 80		
Albert Blazon, for services . . . . .		28 00		
George E. Caisse, for professional services . . . . .		66 40		
James B. Field, for professional services . . . . .		25 00		
A. H. Halpin, for professional services . . . . .		128 00		
L. A. Hurtubise, for professional services . . . . .		66 40		
Wm. A. Johnson, for professional services . . . . .		87 00		
J. E. Lamoureux, for professional services . . . . .		70 40		
		<hr/>		
Amounts carried forward . . . . .	\$	1,382 96	\$	5,464 52

Amounts brought forward . . . .	\$	1,382 96	\$	5,464 52
To A. W. Lavigne, for professional services . . . . .		317 00		
E. G. Livingston, for professional services . . . . .		977 50		
F. McAvinue, for professional services . . . . .		191 00		
Herman J. Smith, for professional services . . . . .		50 00		
E. Valliand, for professional services . . . . .		28 00		
Bartlett & Dow, for screw driver . . . . .		85		
Farrell & Conaton, for pipe, fittings and labor . . . . .		27 44		
F. A. Bates, for meals, etc., furnished . . . . .		177 21		
H. H. Knapp, for sundry expenses . . . . .		170 60		
Adams & Co., for mattresses and pillows . . . . .		21 00		
Pierre Z. Herbert, for furniture . . . . .		12 00		
W. A. Mack & Co., for galvanized pails . . . . .		2 25		
C. B. Coburn & Co., for waste, sulphur, petroleum, etc . . . . .		54 31		
D. J. Donovan, for provisions . . . . .		3 17		
J. L. Fairbanks & Co., for paper . . . . .		2 52		
Eloi N. Breault, for services as police officers . . . . .		4 00		
A. G. Pollard & Co., for bedding . . . . .		47 11		
O'Sullivan Bros., for boots and shoes . . . . .		9 45		
Sevena Mfg. Co., for sevena Merrimack Clothing Co., for clothing . . . . .		6 25		
O. R. Ranlett, for groceries		2 58		
Stanley & Co., for wood . . .		13 84		
J. N. Tarte, for meat and groceries . . . . .		4 00		
		40 44		
Amounts carried forward . . . .	\$	3,545 48	\$	5,464 52

Amounts brought forward . . . .	\$	3,545 48	\$	5,464 52
To J. M. Wotton, for milk . . . .		1 75		
St. John's Hospital for mat- tresses and bedding de- stroyed . . . . .		30 00		
St. Patrick's Cemetery, for opening grave . . . . .		3 00		
N. E. Tel. and Teleg. Co., for service . . . . .		12 03		
W. U. Teleg. Co., for tele- grams . . . . .		41		
Lowell Gas Light Co., for gas range . . . . .		16 00		
George A. Nelson, for pho- tographs . . . . .		1 50		
M. O'Flahavan, for rent of house . . . . .		12 00		
C. Victor Choquette, for services as interpreter . . . . .		32 00		
B. M. and M. E. Hutchins, for typewriting . . . . .		4 80		
J. H. Sparks, for carriage hire . . . . .		3 00		
Thomas F. Fay, for clean- ing vaults . . . . .		6 00		
		<hr/>	\$	3,667 97
			<hr/>	<hr/>
			\$	9,132 49

**HEATING CITY HALL AND MEMORIAL  
BUILDING, LABOR.**

Annual Appropriation .....	\$ 3,000 00	
	<u>                    </u>	\$ 3,000 00

**EXPENDITURES.**

Paid Sundry persons for labor.	\$ 2,879 06	
	<u>                    </u>	\$ 2,879 06
Balance to General Treasury Fund .....		120 94
		<u>                    </u>
		\$ 3,000 00

## HEATING CITY HALL AND MEMORIAL BUILDING, FUEL.

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Annual Appropriation . . . . .	\$	2,000 00	
Additional Appropriation . . . . .		1,200 00	
		<hr/>	\$ 3,200 00
			<hr/>

### EXPENDITURES.

Paid John G. Gordon, for weigh-			
ing coal . . . . .	\$	20 00	
Moore & Bennett Coal Co.,			
for coal . . . . .		3,158 88	
		<hr/>	\$ 3,178 88
Balance to General Treasury			
Fund . . . . .			21 12
			<hr/>
			\$ 3,200 00
			<hr/>



## HEATING CITY HALL AND MEMORIAL BUILDING, SUNDRIES.

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Annual Appropriation .....	\$	600	00	
Additional Appropriation .....		865	29	
				\$ 1,465 29

### EXPENDITURES.

Paid for SUNDRIES:

To Amasa Pratt & Co., for lumber	\$	8	86	
George E. Blanchett, for blacksmithing .....			3	75
H. R. Barker Mfg. Co., for re- pairs .....			4	35
Deane Steam Pump Co., for repairs .....			14	10
Drury & Green, for covering pipes, labor, etc .....			865	29
George E. Hutchins, for washers .....				40
Scannell & Wholey, for cast- ings .....			183	12
The Mason Regulator Co., for springs .....				75
Thompson Hardware Co., for hardware .....				65
Welch Bros., for pipe, fittings, labor, etc .....			172	16
Charles E. Adams, for waste			3	75
Walter Coburn & Co., for waste .....			4	25
Amount carried forward .....	\$	1,261	43	

Amount brought forward.....	\$ 1,261 43	
To C. B. Coburn & Co., for globe, petroleum, packing, etc.	15 79	
Knowlton Packing Co., for packing.....	4 75	
Leonard & Ellis, for oil.....	29 75	
Talbot Dyewood and Chemi- cal Co., for oxalic acid...	27	
Henry F. Whiting, for belt..	26 61	
E. A. Wilson & Co., for lime.	90	
American Express Co., for transportation.....	35	
B. and M. R. R., for transpor- tation.....	40	
Conway Transfer Co., for transportation.....	50	
N. Y. and B. Des. Ex. Co., for transportation.....	25	
	<hr/>	\$ 1,341 00
Balance to General Treasury Fund.....		124 29
		<hr/>
		\$ 1,465 29
		<hr/>

## HUNTINGTON HALL, RE-BUILDING.

Balance undrawn Jan. 1, 1900 . . . .	\$ 9,137 52	
Additional Appropriation . . . . .	23,455 36	
	<hr/>	\$ 32,592 88
Received from Appropriation for Location of Water Tower, for brick . . . . .	\$ 86 79	
James Walsh, for overdraft . . . .	200 00	
	<hr/>	\$ 286 79
		<hr/> <u>\$ 32,879 67</u>

### EXPENDITURES.

#### Paid for SUNDRIES:

To Sundry persons, for labor ..	\$ 3,462 16
Appropriation for Water Works, for service pipe, labor, etc . . . . .	97 83
Burnham & Davis, for doors and lumber . . . . .	424 07
C. M. Holmes, for lumber and labor . . . . .	305 88
Amasa Pratt & Co., for doors	469 29
Pratt & Forrest, for lumber	3,374 38
Wm. H. Wiggin, for lumber.	135 21
W. H. Fuller, for foundation and setting steps . . . . .	241 00
Sosman & Landis, for scenery and fixtures . . . . .	934 48
S. Homer Woodbridge Co., for services . . . . .	178 35
	<hr/>
Amount carried forward . . . . .	\$ 9,622 65

Amount brought forward.....	\$ 9,622 65
To James H. Walker, for brick work .....	220 00
The B. W. Reid Works, for chairs .....	2,181 27
Mortensen & Holdensen, for painting and decorating.	625 00
H. R. Barker Mfg. Co., for heating (contract) .....	9,094 00
H. R. Barker Mfg. Co., for brass rail altering, heat- ing, apparatus, pipe, fit- tings and labor .....	424 02
Bartlett & Dow, for hardware	191 69
T. Costello & Co., for gas and electrical fixtures .....	679 50
Farrell & Conaton, for stand pipe .....	278 00
Farrell & Conaton, for plumb- ing .....	4,272 86
Lowell Gas Light Co., for gas range, meter connections, coke, etc .....	54 00
W. A. Mack & Co., for ventil- ator doors, gutters, con- ductors, moulding, etc ..	413 75
H. B. Shattuck & Son, for hardware .....	22 25
Thompson Hardware Co., for hardware .....	42 71
Tucke & Parker, for electri- cal works .....	619 01
Thomas Mather, for fittings	92
James P. Walsh, for lathing and plastering .....	2,510 00
Charles E. Adams, for mir- rors, filler, etc .....	49 90
C. B. Coburn & Co., for oil, rope, ammonia, etc .....	16 64
A. L. Kittredge & Co., for brushes and pencils ....	2 23
Knowlton Packing Co., for packing .....	2 00
A. H. Sanborn & Co., for pic- tures .....	14 00
Amount carried forward.....	<hr/> \$31,336 40

Amount brought forward . . . . .	\$ 31,336 40	
Henry F. Whiting, for lacing	75	
Edward Cawley, for pressed brick . . . . .	512 76	
Philip P. Conners & Co., for sand . . . . .	20 00	
Conners Bros., for lime and cement . . . . .	61 00	
Moore & Bennett Coal Co., for coal . . . . .	339 76	
E. A. Wilson & Co., for coal and brick . . . . .	207 69	
O'Donnell & Gilbride Co., for curtains, fixtures and car- pets . . . . .	84 31	
Robertson & Company, for furniture . . . . .	118 25	
Courier-Citizen Co., for adver- tising . . . . .	90	
Lowell Sun, for advertising.	2 25	
Morning Mail Corp., for ad- vertising . . . . .	3 50	
N. Y. N. H. & H. R. R. Co., for transportation . . . . .	192 10	
	<hr/>	\$ 32,879 67

Cost of RE-BUILDING HUNT-  
INGTON HALL:

1898 . . . . .	\$ 4,878 50	
1899 . . . . .	21,983 98	
1900 . . . . .	32,879 67	
	<hr/>	\$ 59,742 15



## HUNTINGTON HALL, MAINTENANCE.

Appropriation .....	\$ 2,200 00	
	<hr/>	\$ 2,200 00
Received from C. B. Coburn & Co., overdraft .....		1 80
		<hr/>
		\$ 2,201 80
		<hr/>

### EXPENDITURES.

#### Paid for SUNDRIES:

To Sundry persons for labor ...	\$ 903 25
Appropriation for Water Works, for water.....	59 33
Lowell Electric Light Corp., for lighting .....	268 88
Lowell Gas Light Co., for gas	19 60
Moore & Bennett Coal Co., for coal .....	251 06
J. G. Gordon, for weighing coal	5 00
H. R. Barker Mfg. Co., for valves, gaskets and nip- ples .....	1 97
Bartlett & Dow, for ash cans and brackets.....	15 00
John Callaghan, for dust pans, cuspidors, etc.....	26 00
Eagle Foundry Co., for cast- ings .....	57 60
Farrell & Conaton, for re- pairing urinals and vaults, pipe, fittings, labor, etc.	26 30
	<hr/>
Amount carried forward .....	\$ 1,633 99

Amount brought forward.....	\$ 1,633 99	
To Tucke & Parker, for repair- ing electrical fixtures...	2 85	
Thompson Hardware Co., for hardware .....	2 50	
H. H. Wilder & Co., for gal- vanized iron, screws, la- bor, etc.....	11 30	
Adams Hardware and Paint Co., for ash barrels, brush- es, dusters, etc.....	13 51	
Buttrick & Co., for Gold Dust	1 00	
C. B. Coburn & Co., for wax, polish, waste, chamois skin, etc.....	72 87	
C. H. Kimball & Co., for flag	5 00	
George E. Maker, for mirror	13 20	
A. G. Pollard & Co., for cloth	21 41	
O. B. Ranlett, for Bon Ami and Gold Dust.....	3 16	
Talbot Dyewood and Chemi- cal Co., for ammonia....	75	
John Cross, for sewing drop curtain .....	1 00	
P. H. Meehan, for repairing roof .....	37 25	
Fred C. Church, for insurance	15 00	
Union Printing Co., for print- ing .....	2 00	
Stanley & Co., for wood .....	2 75	
	<hr/>	\$ 1,839 54
Balance to General Treasury Fund .....		362 26
		<hr/>
		\$ 2,201 80
		<hr/>

## INCIDENTALS.

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Annual Appropriation .....	\$ 4,000 00	
	<hr/>	\$ 4,000 00
		<hr/>

### EXPENDITURES.

#### Paid for SUNDRIES:

To Merrimac House, dinners for City Council.....	\$ 27 00
Appleton National Bank, rent of box .....	12 50
Middlesex Safe Deposit and Trust Co., for rent of box	50 00
A. G. Stiles, for expenses on account of Sinking Funds	8 38
Paul R. Burtt, for decorations	125 00
R. A. Griffiths, for decorations	25 00
O'Donnell & Gilbride Co., for decorations .....	30 50
Patten & Roberts, for decora- tions.....	50 00
Whittet & Co., for decorations	22 50
Charles F. Young, for deco- rating City Hall and Mem- orial Building, Memorial Day and Fourth of July.	150 00
H. J. Babcock, for atlas .....	15 00
Carter's Ink Co., for ink....	8 00
Enterprise Printing and Stamp Works, for stamp and pads.....	3 90
	<hr/>
Amount carried forward .....	\$ 527 78

Amount brought forward .....	\$ 527 78
To Thomas H. Lawler, for stationery .....	17 44
G. C. Prince & Son, for stationery .....	3 50
Sampson, Murdock & Co., for directories .....	4 00
M. G. Wight & Co., for blank books and paper .....	10 30
Dumas & Co., for binding City Documents .....	222 48
A. N. Harmon, for frame for resolutions to Hon. Chas. H. Allen .....	9 83
Nicholas G. Norcross, for insurance .....	10 00
Abbott Lawrence, for care and repair of clock on High Street Church ....	55 00
Butterfield Printing Co., for printing .....	1 25
Courier-Citizen Co., for Red Books (600) .....	175 00
Courier-Citizen Co., for printing .....	133 82
Morning Mail Corp., for printing .....	65 75
Thompson & Hill, for printing .....	1 25
Union Printing Co., for printing .....	27 75
Frances E. Andrews, for typewriting .....	47 00
Mary C. Brennan, for typewriting .....	1 50
Helen A. Dimon, for typewriting .....	22 85
F. E. Rollins, for typewriting .....	29 85
Morse Coach Co., for carriage hire .....	1 00
T. Parker, for refreshments .....	12 00
American Express Co., for transportation .....	7 78
Amount carried forward .....	<hr/> \$ 1,387 13

Amount brought forward .....	\$ 1,387 13	
Leonard Huntress, for examination of City Treasurer Coburn .....	25 00	
Clarence W. Whidden, for examination of accounts of city treasurer and sundry departments ...	454 50	
Lowell Sun, for corrections in report of C. W. Whidden .....	6 00	
Whittet & Co., for flowers for C. J. Cheney .....	30 00	
G. P. Dadman, for cash paid for resolutions to Hon. C. H. Allen .....	15 00	
Joseph Albert, for burial of Corp, Regnier .....	48 00	
Lowell Military Band, for services at funeral of Corp. Regnier .....	75 00	
James E. O'Donnell, for carriage hire (Corp. Regnier funeral) .....	8 00	
	<hr/>	\$ 2,048 63

Paid on ACCOUNT OF MEMORIAL DAY:

To H. Allen, Treasurer, per resolution .....	\$ 1,000 00	
	<hr/>	1,000 00

Paid on ACCOUNT OF PUBLIC BATHS:

To Courier-Citizen Co., for advertising .....	3 75	
Daily News Co., for advertising .....	2 60	
Lepine & Co., for advertising .....	4 00	
Morning Mail Corp., for advertising .....	3 50	
Sunday Telegram, for advertising .....	2 70	
	<hr/>	16 55

Amount carried forward .....	\$ 3,065 18
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Amount brought forward . . . . . \$ 3,065 18

Paid on ACCOUNT OF DED-  
ICATION OF HUNT-  
INGTON HALL:

To Courier-Citizen Co., for pro- grammes . . . . .	\$ 17 50	
Daniel N. Pickering, for dis- tributing programmes . .	1 00	
C. H. Kimball & Co., for badges . . . . .	35 30	
Lowell Orchestral Society for services . . . . .	75 00	
National Band, for services .	50 00	
Whittet & Co., for decora- tions . . . . .	31 75	
	<hr/>	210 55

Paid on ACCOUNT OF  
BAND CONCERTS:

To American Band . . . . .	94 00	
Cadet Band . . . . .	94 00	
Lowell Military Band . . . . .	94 00	
National Band . . . . .	100 00	
Lowell Electric Light Corp., for lighting . . . . .	5 00	
Welch Bros., for labor on lights . . . . .	8 95	
	<hr/>	395 95

Paid on ACCOUNT OF COM-  
MITTEE ON APPRO-  
PRIATIONS:

To Thomas P. Sullivan, clerk . . .	\$ 50 00	
Frances E. Andrews, for typewriting . . . . .	16 25	
Morning Mail Corp, for printing . . . . .	30 00	
	<hr/>	96 25

		\$ 3,767 93
Balance to General Treasury Fund . . . . .		232 07
		<hr/>
		\$ 4,000 00

## INDEXES, CITY CLERK'S OFFICE.

Balance undrawn Jan., 1900 . . . . .	\$	279 50	
			\$ 279 50
Courier-Citizen Co., for overdraft	\$	1 75	
			1 75
			<u>\$ 281 25</u>

### EXPENDITURES.

Paid for SUNDRIES:

To Edwards Cheney, clerk . . . . .	\$	240 85	
Waldo F. Miles, clerk . . . . .		25 00	
Courier-Citizen Co., for printing . . . . .		15 40	
			\$ 281 25

**INSPECTOR OF ANIMALS, PROVIS-  
IONS, ETC.**

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Annual Appropriation .....	\$ 500 00	
	<hr/>	\$ 500 00
		<hr/>

**EXPENDITURE.**

Paid W. A. Sherman, salary .....	\$ 500 00	
	<hr/>	\$ 500 00
		<hr/>

## INSPECTOR OF WIRES, SALARIES.

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Annual Appropriation .....	\$ 2,000 00	
Additional Appropriation .....	131 42	
	<hr/>	\$ 2,131 42

### EXPENDITURES.

Paid James F. McElholm, inspec- tor, salary .....	\$ 1,500 00	
Marietta McGrath, clerk...	537 67	
Sundry persons, for labor..	93 75	
	<hr/>	\$ 2,131 42

INSPECTOR OF WIRES, EXPENSE OF TEAM.

Annual Appropriation .....	\$	50 00	
		<u>          </u>	\$ 50 00

EXPENDITURES.

Paid P. F. McNulty, for board of horse .....	\$	43 15	
John J. Donnelly, for shoeing horses.....		4 50	
A. H. McCann, for professional services.....		1 50	
		<u>          </u>	\$ 49 15
Balance to General Treasury Fund .....			85
			<u>          </u>
			<u>\$ 50 00</u>



## INSPECTOR OF WIRES, SUNDRIES.

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Annual Appropriation .....	\$	470 00	
Additional Appropriation .....		43 58	
			\$ 513 58

### EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Public Buildings, Labor, for labor	\$	3 75	
Appropriation for Public Buildings, Sundries, for material .....		3 05	
James F. McElholm, for lantern, oil, expenses to New York and Boston, etc...		74 15	
V. G. Barnard, for stamps..		5 00	
Marietta McGrath, for services .....		2 00	
N. E. Tel. and Teleg. Co., for service .....		9 39	
B. & M. R. R., for tickets ...		40 00	
M. S. Amy, for photographs		7 50	
Bartlett & Dow, for shears and scissors .....		1 75	
Helen A. Dimon, for type-writing .....		90	
A. L. Kittredge & Co., for tracing cloth .....		6 21	
Sampson, Murdock & Co., for directory .....		2 00	
Amount carried forward .....	\$	155 70	

Amount brought forward . . . . .	\$	155 70	
To Butterfield Printing Co., for printing . . . . .		5 00	
Thomas H. Lawler, for sta- tionery . . . . .		67 25	
Morning Mail Corp., for print- ing . . . . .		11 00	
Tilton & Co., for stationery .		3 40	
Union Printing Co., for print- ing . . . . .		5 20	
O. P. Davis, for carriage hire		24 00	
James E. O'Donnell, for car- riage hire . . . . .		10 00	
J. H. Sparks, for carriage hire		232 00	
		<hr/>	
	\$	513 55	
Balance to General Treasury Fund . . . . .			03
			<hr/>
	\$	513 58	
		<hr/>	

## INSPECTOR OF MILK, VINEGAR, ETC., SALARIES.

Annual Appropriation .....	\$ 2,126 00	
	<u>                    </u>	\$ 2,126 00

### EXPENDITURES.

Paid Thomas O. Allen, Inspector, salary .....	\$ 1,500 00	
James E. Hill, for services.	626 00	
		<u>                    </u>
		\$ 2,126 00

## INSPECTOR OF MILK, VINEGAR, ETC., SUNDRIES.

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Annual Appropriation .....	\$	260 00	
			\$ 260 00

### EXPENDITURES.

#### Paid for SUNDRIES:

To V. G. Barnard, for stamps ..	\$	12 00	
Dumas & Co., for blank books		7 50	
Chemical Publishing Co., for books .....		4 50	
O. L. Cambridge, for sta- tionery .....		6 30	
Thomas H. Lawler, for sta- tionery .....		7 25	
Sampson, Murdock & Co., for directories .....		4 00	
Tilton & Company, for sta- tionery .....		50	
Lepine & Co., for advertising		2 50	
Lowell Sun, for advertising .		1 50	
Morning Mail Corp., for ad- vertising .....		1 00	
O. A. Libby, for printing ...		7 50	
Union Printing Co., for print- ing .....		7 20	
B. M. and M. E. Hutchins, for typewriting .....		2 00	
Amount carried forward .....	\$	63 75	

Amount brought forward . . . . .	\$	63 75	
To Hammond Typewriter Co., for repairing typewriter		1 50	
Tucke & Parker, for repair- ing electric churn . . . . .		1 35	
Thomas O. Allen, for samples		23 42	
Baker & Adamson Chemical Co., for sulphuric acid . .		97	
C. B. Coburn & Co., for labor- atory supplies . . . . .		3 79	
Cook, Taylor & Co., for towels		3 00	
Eimer & Amend, for labora- tory supplies . . . . .		4 42	
R. C. Robinson & Co., for lab- oratory supplies . . . . .		44 00	
Talbot Dyewood and Chem- ical Co., for laboratory supplies . . . . .		10 97	
Herbert E. Webster Co., for bottles and stopples . . .		22 50	
John A. Webster, for bottles		8 55	
Thompson Hardware Co., for tools . . . . .		1 00	
Farrell & Conaton, for re- pairs . . . . .		2 40	
W. A. Mack & Co., for shield, labor and repairs . . . . .		3 50	
John Cross, for care of awn- ing . . . . .		1 00	
Morse Coach Co. for carriage hire . . . . .		6 50	
Conway Transfer Co., for transportation . . . . .		25	
N. Y. and B. Des. Ex. Co., for transportation . . . . .		75	
N. Y. N. H. and H. R. R. Co., for transportation . . . . .		35	
		<hr/>	\$ 203 97
Balance to General Treasury Fund . . . . .			56 03
			<hr/>
			\$ 260 00



## LAW DEPARTMENT, SALARIES.

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Annual Appropriation .....	\$ 4,750 00	
	<hr/>	\$ 4,750 00

### EXPENDITURES.

#### Paid SALARIES:

To Francis W. Qua, City Solicitor	3,000 00	
Michael E. McDonald, Inspector .....	1,200 00	
Frances E. Andrews, Clerk .	550 00	
	<hr/>	\$ 4,750 00
		<hr/> <hr/>

## LAW DEPARTMENT, SUNDRIES.

Annual Appropriation .....	\$ 1,526 00	
	\$ 1,526 00	\$ 1,526 00

### EXPENDITURES.

Paid for SUNDRIES:

To N. E. Tel. and Teleg. Co., for service .....	\$ 57 13	
Virgil G. Barnard, for stamps	18 00	
Harry A. Brown, for services	15 00	
Wm. Bass, for services .....	25 00	
Edward W. Clark, for ser- vices .....	4 35	
George A. Leahey, for ser- vices .....	25 00	
Bernard F. Lee, witness ...	4 10	
Patrick Mullaney, witness ..	5 00	
James C. O'Donnell, witness	10 00	
Wm. H. Wiggin, for services	210 00	
Charles R. Wood, for services	10 00	
Helen A. Dimon, for type- writer supplies .....	3 50	
B. M. and M. E. Hutchins, for typewriting .....	22 63	
Saidee M. Swift, for type- writing .....	32 02	
T. S. Johnson, for copy of papers .....	50	
Mdsx. County, for copies ...	4 75	
Francis W. Qua, for expenses in sundry cases .....	186 73	
Amount carried forward .....	\$ 633 71	

Amount brought forward.....	\$ 633 71	
To F. S. Blanchard & Co., for Mass. Year Book .....	3 00	
Little, Brown & Co., for books	77 95	
Lawyer's Co-operative Pub- lishing Co., for books ...	25 00	
Thomas H. Lawler, for sta- tionery .....	24 45	
G. C. Prince & Son, for sta- tionery .....	9 78	
Sampson, Murdock & Co., for directory.....	2 00	
Henry Shaw, for copies of settlement laws .....	2 00	
Frank Shepard, for book ....	6 00	
Edward Thompson Co., for books .....	37 50	
Tilton & Company, for sta- tionery .....	4 15	
M. G. Wight & Co., for blank books .....	3 00	
A. H. Sanborn & Co., for pho- tographs .....	12 50	
Banker and Tradesman, for subscription .....	5 00	
Municipal Engineering Co., for subscription .....	2 00	
Bigelow & Miller for printing	2 50	
Courier-Citizen Co., for print- ing and advertising .....	11 00	
Morning Mail Corp., for printing .....	3 50	
Union Printing Co., for print- ing .....	20 45	
J. A. Gregoire, for carriage hire .....	315 00	
Morse Coach Co., for carriage hire .....	4 00	
American Express Co., for transportation.....	1 20	
	<hr/>	1,205 69
Balance to General Treasury Fund .....		320 31
		<hr/>
	\$	1,526 00
		<hr/>

**LIGHTING, LABOR.**

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Annual Appropriation .....	\$ 8,570 00	
	<hr/>	\$ 8,570 00
		<hr/>

**EXPENDITURES.**

Paid Sundry persons, for labor	\$ 7,335 51	
	<hr/>	\$ 7,335 51
Balance to General Treasury		
Fund .....		1,234 49
		<hr/>
		\$ 8,570 00
		<hr/>

## LIGHTING, SUNDRIES.

Annual Appropriation . . . . .	\$ 79,430 00	
	<hr/>	\$ 79,430 00
Received from J. W. Bennett, overdraft . . . . .	5 00	
	<hr/>	5 00
		<hr/>
		\$ 79,435 00
		<hr/> <hr/>

### EXPENDITURES.

#### Paid for LIGHTING PUBLIC BUILDINGS:

To Lowell Electric Light Corp.	\$ 729 73	
Lowell Gas Light Co. . . . .	401 80	
	<hr/>	\$ 1,131 53

#### Paid for LIGHTING STREETS:

To Appropriation for Public Buildings, for labor and material . . . . .	\$ 1 40	
Appropriation for Water Works, for water . . . . .	9 90	
N. E. Tel. and Teleg. Co., for service . . . . .	3 85	
Globe Gas Light Co., for lights . . . . .	8,783 10	
Globe Gas Light Co., for repairing torches . . . . .	2 50	
	<hr/>	
Amounts carried forward . . . . .	\$ 8,800 75	\$ 1,131 53



Amounts brought forward . . . . .	\$ 8,800 75	\$ 1,131 53
To Lowell Gas Light Co., for gas	6,273 20	
Lowell Electric Light Corp., for lights . . . . .	58,379 54	
Lowell Electric Light Corp., for changing lights . . . . .	18 00	
Welsbach Lighting Co. for lights . . . . .	3,393 73	
H. R. Barker Mfg. Co. for fittings . . . . .	36 48	
J. C. Bennett, for paint . . . . .	5 00	
A. Ivan Laughton, for repair- ing lanterns . . . . .	176 98	
Wm. H. Wiggin, for lamp posts . . . . .	23 45	
C. Crevier, for blacksmithing	49 55	
H. F. Ebert, for repairing harnesses . . . . .	1 05	
C. H. Hanson & Co., for blanket . . . . .	3 25	
F. B. Hill & Co., for repairing carriages . . . . .	47 00	
J. B. Cover & Co., for oats . .	6 78	
John B. Sabre, Agt., for oats	23 13	
Vigeant, Dumas & Co., for oats . . . . .	27 52	
O. D. Wilder, for hay and oats . . . . .	29 54	
Charles E. Adams, for alcohol and glass . . . . .	41 63	
C. B. Coburn & Co., for alco- hol . . . . .	25 25	
P. Dempsey & Co., for alcohol	37 50	
A. L. Kittredge & Co., for oil	2 80	
O. B. Ranlett, for matches . . .	5 50	
Moore & Bennett Coal Co., for coal . . . . .	15 63	
E. A. and A. T. Smith, for concrete . . . . .	3 75	
Thomas H. Lawler, for sta- tionery . . . . .	3 50	
G. C. Prince & Son, for sta- tionery . . . . .	7 64	
Amounts carried forward . . . . .	<u>\$77,438 15</u>	<u>\$ 1,131 53</u>

Amounts brought forward .....	\$77,438 15	\$ 1,131 53
To Tilton & Company, for stationery .....	3 40	
Lowell Sun, for printing ....	4 00	
The Bigelow Press, for printing .....	3 00	
A. W. Baker, for professional services .....	2 00	
	<hr/>	\$ 77,450 55
		<hr/>
		\$ 78,582 08
Balance to General Treasury Fund .....		852 92
		<hr/>
		\$ 79,435 00
		<hr/> <hr/>

## LIQUOR LICENSES.

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Annual Appropriation.....	\$ 39,000 00	
	<hr/>	\$ 39,000 00
Additional Appropriation .....	\$ 2,937 75	
	<hr/>	2,937 75
		<hr/>
		\$ 41,937 75
		<hr/>

### EXPENDITURE.

Paid Commonwealth of Massa- chusetts, 25% of Liquor License Fees of 1900 ..	\$ 41,937 75	
	<hr/>	\$ 41,937 75
		<hr/>

## MAYOR'S DEPARTMENT.

Annual Appropriation .....	\$ 4,500 00	
	\$ 4,500 00	

### EXPENDITURES.

Paid Jeremiah Crowley, Mayor, salary .....	\$ 3,000 00	
	\$ 3,000 00	
Paid Fred M. Prescott, Private Secretary, salary .....	\$ 1,200 00	
	1,200 00	

### Paid for SUNDRIES:

To Virgil G. Barnard, for stamps	\$ 8 00	
Fred M. Prescott, for stamps	5 00	
N. E. Tel. and Teleg. Co., for service .....	9 96	
F. S. Blanchard & Co., for Mass. Year Book .....	3 00	
Little, Brown & Co., for books	10 00	
G. C. Prince & Son, for sta- tionery .....	40 00	
Sampson, Murdock & Co., for directory .....	2 00	
Thompson & Hill, for print- ing .....	8 90	
F. A. M. Tobin, for printing	6 00	
Morning Mail Corp., for sub- scription .....	6 00	
Amount carried forward .....	\$ 98 86	\$ 4,200 00

Amounts brought forward .....	\$	98 86	\$	4,200 00
To J. F. Bickford, for repairing typewriter .....		1 50		
Am. Ex. Co., for transporta- tion .....		90		
		<hr/>		101 26
				<hr/>
			\$	4,301 26
Balance to General Treasury Fund .....				198 74
				<hr/>
			\$	4,500 00
				<hr/> <hr/>



## MILITARY AID.

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Annual Appropriation .....	\$ 7,000 00	
	<u>                    </u>	\$ 7,000 00
		<u>                    </u>

### EXPENDITURE.

Paid sundry persons .....	\$ 6,966 00	
	<u>                    </u>	\$ 6,966 00
Balance to General Treasury Fund .....	\$ 34 00	
	<u>                    </u>	34 00
		<u>                    </u>
		\$ 7,000 00
		<u>                    </u>

## PAUPERS, ALMSHOUSE.

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Annual Appropriation .....	\$ 40,000 00	
Additional Appropriation .....	5,439 48	
		\$ 45,439 48

### RECEIPTS.

Received from Sundry Departments as follows:

Health Department, Yard, for supplies furnished at Pest House	\$ 258 50	
Elections, for wood .....	31 84	
Paupers, Out Door Relief, for fuel and provisions on orders ....	10,672 37	
Schools, for wood .....	656 45	
		11,619 16
		\$ 57,058 64

### EXPENDITURES.

Paid SUPERINTENDENT:

To Moses Wyman, salary .....	\$ 10 96	
Albert Pinder, salary .....	1,989 04	
		\$ 2,000 00
Paid Wm. M. Jones, City Physician .....	\$ 700 00	
		700 00
Paid Sundry persons, for services	\$ 9,401 36	
		9,401 36
Amount carried forward .....		\$ 12,101 36

Amount brought forward..... \$ 12,101 36

Paid for FUEL:

To Wm. E. Livingston.....	\$	5 91	
Moore & Bennett Coal Co...		3,056 34	
E. A. Wilson & Co.....		1 75	
J. G. Gordon, for weighing coal.....		10 00	
			3,074 00

Paid for HAY, GRAIN, GRO-  
CERIES, MEATS, Etc.:

To J. B. Cover & Co.....	\$	597 94
Joseph Evans .....		50 00
G. M. Foster.....		77 77
C. H. Hanson & Co.....		74 92
Wm. E. Livingston .....		681 18
Enoch Mills.....		15 25
T. J. McDonald .....		105 62
James Meek.....		17 60
D. C. Perham .....		11 97
J. B. Sabre, Agt.....		9 56
Vigeant, Dumas & Co.....		405 27
O. D. Wilder .....		823 67
F. M. Bill & Co.....		14 50
G. J. & D. Bradt.....		294 75
Bradbury & Co.....		24 96
Calderwood & Robbins.....		71 44
S. K. Dexter .....		1,484 10
Dickson Bros.....		2,132 93
J. J. Gallagher.....		84 24
W. H. I. Hayes.....		349 57
Haynes & Bean.....		793 90
Haskell, Adams & Co.....		85 00
Kilpatrick Bros.....		97 65
A. McCarron.....		37 60
H. E. Noyes & Son .....		237 14
J. & J. M. Pearson .....		19 25
George E. Putnam .....		3,270 81
M. E. Puffer .....		96 53
G. G. Read.....		727 58
O. B. Ranlett.....		243 98
Caleb L. Smith .....		198 10
Simpson & Rowland.....		2,355 29
Saville, Sames & Co.....		85 80

Amounts carried forward ..... \$ 15,575 87 \$ 15,175 36

Amounts brought forward.....	\$ 15,575 87	\$ 15,175 36
To Armour & Co.....	489 28	
Daniel Gage.....	302 62	
Keefe Bros.....	1,709 85	
Lowell Packing and Provis- ion Co.....	39 60	
M. McGlinchey.....	360 75	
G. N. & N. E. Nichols .....	6 60	
O'Brien & Co.....	259 91	
Swift & Co.....	1,092 30	
Swift & Bailey.....	4,326 27	
F. A. Tuttle .....	913 78	
Chas. W. Wilder .....	90 00	
C. M. Allen .....	470 40	
George M. Teel .....	322 11	
B. F. Witham .....	693 00	
Fleischman & Co .....	99 60	
	<hr/>	26,751 94

Paid for CLOTHING, DRY  
GOODS, etc:

To S. Abels .....	43 12	
Bon Marche Dry Goods Co ..	178 69	
Israel Bent .....	33 44	
J. L. Chalifoux .....	166 85	
Cook, Taylor & Co.....	777 30	
Charles M. Dickey .....	46 50	
George E. Hutchins .....	75 80	
A. M. Huntoon & Co.....	194 00	
Mrs. W. J. Johnson.....	7 00	
C. H. Kimball & Co.....	460 05	
Merrimack Clothing Co .....	1 40	
Massachusetts Reformatory	8 05	
Massachusetts State Prison.	186 52	
John Mountford .....	20 76	
George Mongeau .....	95 88	
O'Donnell & Gilbride Co ....	112 94	
A. G. Pollard & Co.....	195 31	
Putnam & Son .....	176 90	
Parthenais Bros .....	163 10	
F. H. Pearson & Co.....	39 33	
J. C. Parker.....	11 70	
Harry Raynes .....	9 00	
E. D. Steele & Co .....	249 89	
D. Swan .....	81 79	
	<hr/>	3,335 32
Amount carried forward.....		\$ 45,262 62

Amount brought forward..... \$ 45,262 62

Paid for DRUGS, MEDICINES, etc:

To F. H. Butler & Co .....	\$	77 35
Carleton & Hovey .....		11 95
Charles E. Carter .....		194 26
D. F. Conlon .....		59 00
P. Dempsey & Co .....		109 74
A. W. Dows & Co.....		49 97
Ellingwood & Co .....		24 21
R. J. Lang & Co .....		126 49
E. A. McQuade.....		145 68
Wm. H. Pearson .....		20 85
M. E. Thompson .....		24 50
Herb Webster, Jr .....		41 15

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885 15

Paid for SUNDRIES:

To Appropriation for Engineering .....	\$	12 24
Appropriation for Water Works .....		1,111 22
Appropriation for Public Buildings, Sundries ....		47 25
Appropriation for School Houses, Labor.....		147 50
Albert Pinder, for sundry expenses.....		41 14
Town of Chelmsford, for tax of 1900 .....		59 40
Lowell Gas Light Co., for gas		1,060 00
N. E. Tel. and Teleg. Co., for service .....		113 68
Lowell Index Co., for rent of index .....		2 00
A. B. Adams, for lumber and labor .....		17 00
Burnham & Davis, for lumber		88 30
Charles E. Howe & Co., for lumber .....		397 98
Pratt & Forrest, for lumber.		103 50
William H. Wiggin, for lumber .....		33 08

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Amounts carried forward ..... \$ 3,234 29 \$ 46,147 77



Amounts brought forward . . . . .	\$ 3,234 29	\$ 46,147 77
To Adams Hardware and Paint Co., for hardware, paint, glass, etc . . . . .	146 22	
W. T. S. Bartlett, for hard- ware, tarred paper, etc . . . . .	51 53	
Charles E. Adams, for hard- ware . . . . .	43 19	
Bartlett & Dow, for hardware, tools, seeds, etc . . . . .	145 34	
Boutwell Bros., for iron . . . . .	28 35	
E. P. Flanders & Co., for hardware . . . . .	64 47	
H. B. Shattuck & Son, for hardware and tools . . . . .	79 11	
Thompson Hardware Co., for hardware and tools . . . . .	66 61	
Braman, Dow & Co., for Bickel Trap . . . . .	15 00	
H. R. Barker Mfg. Co., for burners, mantles, chim- neys, etc . . . . .	41 86	
F. P. Crawford, for clippers . . . . .	4 88	
T. Costello & Co., for port- able lamps, repairing heater, etc . . . . .	17 25	
Coggeshall Manufacturing Co., for tube scraper . . . . .	3 75	
Derby & Morse, for annun- ciator and repairs . . . . .	22 57	
Deane Steam Pump Co., for plunger pump and brass valves . . . . .	90 00	
Eagle Foundry Co., for cast- ings . . . . .	1 89	
Josiah Gates & Sons, for leather . . . . .	9 32	
Middlesex Machine Co., for pipe, fittings, labor, etc . . . . .	91 96	
Noyes Manufacturing Co., for gas regulator . . . . .	125 00	
Pevey Bros., for castings . . . . .	3 50	
Rice & Company, for window guard . . . . .	1 25	
Amounts carried forward . . . . .	\$ 4,287 34	\$ 46,147 77

Amounts brought forward.....	\$ 4,287 34	\$ 46,147 77
To Scott & O'Day, for pipe, fittings, labor, etc.....	104 26	
Scannell & Wholey, for grate and castings .....	95 94	
Joseph V. Sweeney, for plumbing .....	119 77	
H. H. Wilder & Co., for iron collars .....	104 18	
Charles E. Adams, for shellac, sponges, chamois skin, etc.....	14 50	
Adams Hardware and Paint Co., for glass, putty, brushes, bags, etc ....	32 16	
C.B. Coburn & Co., for oil, rope, brushes, bags, etc.....	487 35	
Columbian Insecticide Co., exterminating bugs ....	214 02	
W. A. Dickinson, for soap stock .....	223 30	
F. J. Fleming, for bags, paper, twine, etc.....	123 62	
George E. Hutchins, for syringes .....	4 50	
Johnson & Garvey, for condition powders .....	36 00	
A. L. Kittredge & Co., for white lead, shellac, finish, etc .....	58 40	
Lachapell & Audette, for bluing .....	6 50	
Wm. Henry Maule, for seeds .....	33 00	
Savena Mfg. Co., for tallow chips, washing powder, etc .....	51 40	
Talbot Dyewood and Chemical Co., for ammonia ....	287 25	
Philip Ginty, for labor .....	3 50	
Wm. E. Livingston, for cement .....	7 62	
Staple Bros., for drain pipe, tees. etc .....	4 29	
E. A. Wilson & Co., for lime .....	19 80	
E. P. Hoole & Co., for fire-works .....	84 00	
Amounts carried forward.....	\$ 6,402 70	\$ 46,147 77

Amounts brought forward .....	\$ 6,402 70	\$ 46,147 77
To John J. Doherty, for mat- tresses and repairing...	23 50	
Adams & Co., for furniture	59 00	
C. W. Durant, for spectacles	5 25	
J. J. Gaynor, for repairing furniture .....	5 75	
Abbott Lawrence, for repair- ing clocks .....	3 00	
McKissock Steam Carpet Cleaning Works, for cleaning carpet .....	2 82	
Robertson & Co., for furni- ture .....	11 55	
Mrs. N. L. Wheeler, for shears .....	4 70	
H. P. Flanders & Co., for rules .....	45	
Thomas H. Lawler, for sta- tionery .....	6 90	
Lowell Rubber Type Co., for stamp and pad .....	1 75	
G. C. Prince & Son, for sta- tionery .....	8 25	
Tilton & Company, for sta- tionery .....	9 48	
Sampson, Murdock & Co., for directory .....	2 00	
J. J. Gaynor, for services as appraiser .....	70 00	
Francis M. Leighton, for ser- vices as appraiser .....	70 00	
J. H. Sparks, for services as appraiser .....	70 00	
B. M. and M. E. Hutchins, for typewriting .....	5 00	
Fred C. Church, Agt., for in- surance .....	285 03	
George B. Wright, for maple tree .....	14 00	
James P. Daley, for Guernsey bull .....	28 00	
C. L. Marshall, for Yorkshire pig .....	13 00	
Amounts carried forward .....	\$ 7,102 13	\$ 46,147 77

Amounts brought forward.....	\$ 7,102 13	\$ 46,147 77
To Galloway Bros., for dressing hogs .....	39 00	
John Keats, for dressing hogs	6 00	
George F. Allen, for repair- ing harnesses .....	74 30	
Donovan Harness Co., for re- pairing harness .....	75	
H. F. Ebert,* for repairing harness .....	85	
John J. Donnelly, for shoeing horses .....	5 65	
M. V. B. Libbey, for shoeing horses .....	210 70	
E. P. McCoy, for repairing wagon .....	44 94	
J. H. Swett, for repairing wagon .....	37 27	
F. G. Burnham, for profes- sional services.....	10 00	
Charles E. Munn, for profes- sional services.....	66 00	
Charles R. Wood, for profes- sional services.....	24 00	
American Express Co., for transportation.....	60	
B. & M. R. R., for transport- ation .....	16 95	
	<hr/>	7,639 14

Paid on ACCOUNT OF  
WOOD YARD:

To Sundry persons, for services as drivers of delivery wag- ons .....	\$ 1,060 23	
B. G. Brown, for wood .....	194 69	
F. H. Farmer, for wood.....	383 51	
Daniel Gage, for wood.....	119 84	
Alfred LeBlanc, for wood...	434 71	
Moore & Bennett Coal Co., for coal .....	1,055 55	
M. V. B. Libbey, for shoeing horses .....	18 30	
O. A. Richardson's Sons, for filing saws .....	4 90	
	<hr/>	3,271 73
		<hr/>
		\$ 57,058 64

## PAUPERS, OUT DOOR RELIEF.

Annual Appropriation .....	\$ 47,000 00	
Additional Appropriation .....	8,004 90	
	<hr/>	\$ 55,004 90

### RECEIPTS.

Received from Sundry sources, as follows:		
From Appropriation for Soldiers Relief, for medicines..	\$ 103 20	
Catherine Cummiskey, cash	8 00	
Winnifred O'Byrne, cash..	6 00	
Thomas Varnum, cash ...	20 00	
Town of Revere, overdraft	6 00	
	<hr/>	143 20
		<hr/>
		\$ 55,148 10
		<hr/>

### EXPENDITURES.

Paid Martin J. Courtney, Secre- tary .....	\$ 1,500 00	
	<hr/>	\$ 1,500 00
Paid for EXPENSES OF SEC- RETARY'S OFFICE:		
To James F. Walsh, clerk.....	\$ 1,200 00	
Nellie A. Keyes, clerk .....	782 50	
Martin J. Courtney, for sun- dry expenses.....	213 19	
	<hr/>	
Amounts carried forward.....	\$ 2,195 69	\$ 1,500 00



Amounts brought forward .....	\$ 2,195 69	\$ 1,500 00
To N. E. Tel. and Teleg. Co., for service .....	50 27	
W. U. Teleg. Co., for tele- grams .....	3 24	
Lowell Index Co., for rent of telephone index .....	2 00	
B. & M. R. R., for tickets ...	317 84	
George White, for railroad tickets .....	19 29	
Helen A. Dimon, for type- writing .....	1 00	
F. S. Blanchard & Co., for Mass. Year Book .....	3 00	
Sampson, Murdock & Co., for directories .....	4 00	
Harvey C. Derby, for rubber stamp .....	6 50	
Butterfield Printing Co., for printing .....	29 50	
Courier-Citizen Co., for blank book .....	3 00	
Thomas H. Lawler, for sta- tionery .....	10 00	
O. A. Libby, for printing ...	10 00	
Lowell Sun, for printing ....	38 48	
Morning Mail Corp., for printing .....	4 00	
Thompson & Hill, for print- ing .....	27 50	
Union Printing Co., for print- ing .....	15 75	
Henry Shaw, for books .....	4 00	
Bartlett & Dow, for drawer pulls .....	30	
A. H. Cluer, for robe .....	18 00	
H. J. O'Dowd, for wagon and repairing .....	144 50	
Sawyer Carriage Co., for re- pairing wagon .....	34 94	
Morse Coach Co., for carriage hire .....	15 50	
J. H. Sparks, for carriage hire	25 00	
American Express Co., for transportation .....	15	
Amounts carried forward .....	<hr/> \$ 2,983 45	<hr/> \$ 1,500 00

Amounts brought forward .....	\$ 2,983 45	\$ 1,500 00
Conway Transfer Co., for transportation.....	3 00	
Man. & Con. Ex. Co., for transportation.....	65	
N. Y., N. H. & H. R. R. Co., for transportation .....	76	
	<hr/>	2,987 86
Paid Sundry persons, cash al- lowances .....	\$ 3,825 94	
	<hr/>	3,825 94
Paid for PROVISIONS, FUEL, Etc., on orders:		
To Appropriation for Paupers, Almshouse .....	\$ 10,672 37	
James Boyle & Sons .....	6 00	
Barrett Bros.....	3 00	
John J. Brennan .....	12 00	
Fred M. Barney & Co.....	33 00	
Boulger Shoe Co.....	3 00	
Broadway Provision Co.....	5 00	
E. J. Barrett .....	33 00	
Broadway Cash Market .....	18 00	
Breen Bros.....	102 00	
Omer Benard .....	3 00	
Thomas Brennan.....	12 00	
Banner Market.....	42 00	
Barney & Co.....	3 00	
Humphrey Coffey .....	39 00	
A. J. Conant.....	27 00	
S. W. Churchill.....	24 00	
J. H. Corbett & Co.....	32 00	
Arthur J. Conant.....	9 00	
D. K. Cheever.....	12 00	
Francis T. Callahan .....	3 00	
George Campbell.....	6 00	
D. J. Donovan .....	78 00	
Mrs. John Drain.....	12 00	
East Merrimack Drug Co..	2 50	
Everett Market .....	9 00	
James E. Freeman .....	222 00	
James Farrell .....	54 00	
Furlong Bros .....	33 00	
	<hr/>	<hr/>
Amounts carried forward.....	\$ 11,509 87	\$ 8,313 80

Amounts brought forward . . . . .	\$ 11,509 87	\$ 8,313 80
To P. L. Furlong . . . . .	24 00	
Harry Gray . . . . .	36 00	
P. J. Gallagher . . . . .	27 00	
H. J. Keyes . . . . .	81 00	
P. Keyes, Jr . . . . .	18 00	
Keefe Bros. . . . .	57 00	
Kelly & Co . . . . .	17 50	
Geo. Lynch . . . . .	10 00	
F. J. McCarty . . . . .	41 00	
Richard J. McCluskey . . . . .	39 00	
M. McGlinchey . . . . .	125 00	
T. F. McSorley . . . . .	27 00	
Ed. Martin . . . . .	108 00	
Mrs. J. A. Mansfield . . . . .	49 95	
George F. Maguire . . . . .	78 50	
Merrimack Clothing Co . . . . .	2 25	
N. E. Market . . . . .	156 00	
O'Donnell & Gilbride Co . . . . .	2 72	
C. F. O'Neil . . . . .	30 00	
O'Sullivan Bros. . . . .	5 95	
A. G. Pollard & Co . . . . .	4 00	
Pawtucketville Cash Grocery . . . . .	3 00	
Fred Powers . . . . .	75 00	
G. H. Perrault . . . . .	10 00	
P. F. Queenan . . . . .	48 00	
Ranlett & Ranlett . . . . .	15 00	
Stiles & Co . . . . .	57 00	
Clarence E. Stevens . . . . .	6 00	
J. B. Richardson's Sons . . . . .	3 00	
F. A. Tuttle . . . . .	39 00	
Union Market . . . . .	24 00	
E. L. Wiggin . . . . .	3 00	
A. E. Warren . . . . .	15 00	
John Whitty . . . . .	30 00	
Boulger Shoe Co . . . . .	3 75	
	<hr/>	12,781 49

Paid on ACCOUNT OF AM-  
BULANCE DRIVERS:

To Joseph Ashworth . . . . .	\$ 555 00	
George B. McKenna . . . . .	799 29	
James A. Riley . . . . .	724 29	
	<hr/>	
Amounts carried forward . . . . .	\$ 2,078 58	\$ 21,095 29

Amounts brought forward.....	\$ 2,078 58	\$ 21,095 29
To Hugh Armstrong.....	75 00	
Charles Thurston .....	199 29	
	<hr/>	2,352 87
Paid for AMBULANCE SUR- GEON:		
To F. G. Burnham .....	\$ 600 00	
	<hr/>	600 00
Paid for SUNDRIES:		
To Appropriation for Water Works, for water.....	\$ 18 00	
N. E. Tel. and Teleg. Co., for service .....	131 30	
N. E. Tel. and Teleg. Co., for rent of private line ..	20 00	
Lowell Gas Light Co., for gas	15 60	
W. T. S. Bartlett, for wrench	65	
Sweeney & Welch, for solder, pipe and labor .....	10 35	
Buttrick & Co., for gold dust	40	
F. H. Butler & Co., for med- icine .....	5 35	
C. B. Coburn & Co., for brooms, lamps, oil, etc.	15 70	
Crystal Oil Co., for oil .....	1 05	
Daniel Gage, for ice .....	5 25	
Johnson & Garvey, for condi- tion powders .....	19 25	
O. B. Ranlett, for matches, oil, and gold dust .....	1 89	
E. A. and A. T. Smith, for concrete .....	295 66	
A. N. Armitstead & Son, for repairing rubber boots..	1 25	
Highland Steam Laundry, for laundering .....	38 32	
George E. Hutchins, for rub- ber boots .....	3 63	
A. G. Pollard & Co., for crash	1 10	
Donovan Harness Co., for • harness dressing, repair- harnesses .....	50 20	
Amounts carried forward.....	\$ 634 95	\$ 24,048 16

Amounts brought forward .....	\$ 634 95	\$ 24,048 16
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To C. Crevier, for repairing am- bulance .....	8 36	
H. J. O'Dowd, for painting and repairing ambulances...	220 75	
Sawyer Carriage Co., for re- pairing ambulance .....	8 07	

## Paid for SHOEING HORSES:

To John H. Collins .....	5 00	
O. K. Dexter .....	11 85	
T. F. Fennessey .....	8 56	
Henry Reynolds .....	139 55	
To J. B. Cover & Co., for oats...	55 51	
C. H. Hanson & Co., for hay.	186 17	
O. D. Wilder, for oats and shorts .....	139 84	
A. W. Baker, for professional services .....	4 00	
A. H. McCann, for profes- sional services .....	3 00	
U. S. Richards, for profes- sional services .....	6 00	
Sampson, Murdock & Co., for directory .....	2 00	
Morse Coach Co., for clipping horse .....	2 00	
	<hr/>	1,435 61

Paid on ACCOUNT OF DIS-  
PENSARY CLERK:

To Austin Keith .....	\$ 85 00	
Edwin F. Mason .....	801 83	
	<hr/>	886 83

Paid for DRUGS, MEDI-  
CINES, Etc:

To American Distributing Co...	\$ 112 61	
F. H. Butler & Co .....	40 06	
Carter & Sherburne .....	4 73	
Charles E. Carter .....	53 95	
	<hr/>	
Amounts carried forward .....	\$ 211 35	\$ 26,370 60



Amounts brought forward.....	\$ 211 35	\$ 26,370 60
To Carleton & Hovey .....	3 60	
C. B. Coburn & Co.....	4 25	
A. W. Dows & Co .....	23 33	
Ellingwood & Co.....	3 50	
Frank C. Goodale.....	137 98	
A. L. Kittredge & Co .....	13 62	
R. J. Lang & Co .....	145 95	
G. G. Read .....	12 98	
Sampson, Murdock & Co....	2 00	
M. E. Thompson .....	49 85	
Thompson Hardware Co....	15	
Herb. Webster, Jr.....	29 72	
	<hr/>	638 28

## Paid PHYSICIANS:

To P. Brunelle .....	\$ 279 00	
Charles M. Frye .....	213 23	
A. J. Halpin.....	340 00	
Wm. A. Johnson.....	212 00	
L. J. McDonough.....	248 00	
C. B. Pool.....	33 32	
O. P. Porter .....	200 00	
	<hr/>	1,525 55

Paid for COFFINS, INTER-  
MENTS, Etc.:

To Appropriation for Public Buildings .....	\$ 229 00	
Appropriation for School Houses .....	237 00	
Joseph Albert.....	37 00	
Amedee Archambault.....	26 00	
J. W. Brooks .....	52 00	
Peter Davey.....	8 00	
Charles H. Molloy .....	95 00	
James F. O'Donnell.....	34 00	
Peter H. Savage.....	57 00	
C. M. Young & Co.....	3 00	
	<hr/>	778 00

Amount carried forward.....	\$ 29,312 43
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Amount brought forward ..... \$ 29,312 43

Paid for SUPPORT OF SUN-  
DRY PERSONS OUT  
OF ALMSHOUSE:

To Commonwealth of Massachu- setts.....	\$ 2,576 05
Children's Hospital.....	48 00
Danvers Insane Hospital....	3,038 46
Hospital Cottages for Chil- dren .....	35 28
Lowell Hospital Association.	528 84
Lowell General Hospital ....	556 43
Massachusetts School for Fee- ble Minded.....	1,016 70
Massachusetts School for Epileptics.....	298 61
Massachusetts Hospital for Dipsomaniacs .....	61 40
Medfield Insane Hospital....	3,483 71
Middlesex County Truant School .....	17 86
Perkins Institute and Mass. School for Blind.....	22 99
St. Peter's Orphanage.....	979 92
Sisters of Charity, Lawrence	598 88
Sisters of Charity, Salem....	281 55
St. John's Hospital .....	3,158 28
Worcester Insane Asylum..	1,186 24
Worcester Insane Hospital..	5,853 34
Worcester City Hospital....	110 00
Westborough Insane Hospi- tal .....	459 25
City of Boston.....	215 86
Beverly .....	59 82
Fitchburg .....	41 00
Fall River.....	36 46
Haverhill .....	25 00
Holyoke .....	114 00
Lawrence .....	58 45
Lynn .....	61 50
Medford .....	35 72
Newburyport .....	64 25
North Adams.....	18 00

Amounts carried forward ..... \$ 25,041 85      \$ 29,312 43

Amounts brought forward .....	\$ 25,941 85	\$ 29,312 43
To City of New Bedford .....	24 84	
Springfield .....	90 38	
Salem .....	69 53	
Somerville .....	91 00	
Worcester .....	41 29	
Waltham .....	11 25	
• Town of Avon .....	147 00	
Brookline .....	46 28	
Billerica .....	107 13	
Blackstone .....	14 75	
Chelmsford .....	101 10	
Medfield .....	14 00	
Norwood .....	18 50	
Revere .....	8 00	
	<hr/>	\$ 25,826 90
Paid N. E. Tel. and Teleg. Co., for use of telephone for chair- man of Board of Overseers..	\$ 8 77	
	<hr/>	8 77
		<hr/>
		\$ 55,148 10
		<hr/>

## POLICE DEPARTMENT, SALARIES AND LABOR.

Annual Appropriation .....	\$ 124,325 00	
	<u>                    </u>	<u>\$124,325 00</u>
Received from sundry depart- ments, for services of officers	\$ 2,240 88	
	<u>                    </u>	<u>\$ 2,240 88</u>
		<u>\$126,565 88</u>

### EXPENDITURES.

Paid for SALARIES:		
To George R. Davis, Superin- tendent.....	\$ 2,000 00	
Wm. B. Moffatt, Deputy Superintendent.....	1,400 00	
Wm. R. Kew, Deputy Super- intendent .....	1,400 00	
John A. Faulkner, Commis- sioner, Chairman .....	510 00	
Frank B. Dow, Commis- sioner, Chairman .....	690 00	
Harry R. Rice, Commis- sioner.....	1,000 00	
Peter J. Brady, Commis- sioner .....	1,000 00	
Joseph Smith, Secretary....	1,500 00	
Sundry persons, Pensions ..	669 12	
Sundry persons, Officers ...	107,416 77	
Michael J. Burns, Electrician	1,400 00	
	<u>                    </u>	<u>\$118,985 89</u>
Amount carried forward.....		<u>\$118,985 89</u>

Amount brought forward .....	\$ 118,985 89
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## Paid for LABOR;

To John E. Maguire, Constable	\$ 312 00	
Emma Vining, Clerk.....	266 00	
Sundry persons, labor.....	4,708 76	
Sundry persons, labor on telegraph system.....	416 09	
	<hr/>	5,702 85
		<hr/>
		\$124,688 74
Balance to General Treasury Fund .....		1,877 14
		<hr/>
		<u>\$126,565 88</u>



## POLICE DEPARTMENT, SUNDRIES.

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Annual Appropriation .....	\$ 7,000 00	
Additional Appropriation .....	1,837 35	
	<hr/>	\$ 8,837 35

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### EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Water Works, for water.....	\$ 102 86
· Appropriation for Public Buildings, for labor.....	278 31
Appropriation for Public Buildings for sundries..	97 11
Lowell Gas Light Co., for gas.....	338 50
Lowell Electric Light Corp., for lights .....	245 83
N. E. Tel. & Teleg. Co., for service.....	370 10
Lowell Index Co., for rent of telephone index .....	2 00
Thomas E. Allen, for traveling expenses .....	15 26
Michael J. Burns, for sundry expenses.....	19 86
George R. Davis, for sundry expenses.....	97 00
David J. Donaldson, for sundry expenses.....	2 00
John J. Harvey, for services.	15 00
J. C. Irish, for services.....	5 00
	<hr/>
Amount carried forward .....	\$ 1,588 83

Amount brought forward .....	\$ 1,588 83
To E. L. Leighton, for sundry expenses.....	12 00
Charles Laflamme, for sundry expenses.....	3 94
Wm. Anderson, for labor....	11 25
Mary E. Freeman, for labor..	50 00
James Farrell, for labor....	18 75
Peter McCormick, for labor..	170 00
James McDermott, for labor..	160 00
Frank Mason, for labor.....	62 50
E. G. Thomas, for labor.....	6 25
Fred L. Davis, for repairing chairs.....	6 57
Am. Steel and Wire Works, for wire.....	300 00
Bartlett & Dow, for rake....	65
W. T. S. Bartlett, for hardware, hose, brushes, etc..	73 95
H. R. Barker Mfg. Co., for pipe, labor, etc .....	451 93
Carry Spring Works, for springs .....	6 25
John Callaghan, for water cans .....	4 50
Wm. E. Decrow, for ink rollers, condensers, etc....	156 13
Derby & Morse, for fixtures, wire, zinc, copper, etc....	101 32
F. M. Ferrin, for cable .....	180 50
Farrell & Conaton, for pipe, fittings and labor .....	13 10
Henry C. Girard, for pliers..	1 75
Gordon-Battery Co., for recharges.....	4 60
Norman Leith, for repairing tools .....	8 95
Scott & O'Day, for pipe, fittings and labor.....	43 12
Thompson Hardware Co., for hardware, repairing bicycles, etc.....	32 80
Tucke & Parker, for electrical supplies and labor...	88 69
Amount carried forward .....	\$ 3,558 33

Amount brought forward .....	\$ 3,558 33
To The Edes Manufacturing Co., for mercury .....	58 47
H. H. Wilder & Co., for fit- tings, iron, water pots, labor, etc .....	13 62
C. Zimmer, for keys and re- pairs .....	24 90
Burnham & Davis, for lumber	202 49
Wm. H. Wiggin, for lumber.	22 28
Am. Electric Works, for blue vitriol .....	128 19
Charles E. Adams, for soap.	2 76
Adams Hardware and Paint Co., for sponge, pail, etc.	5 35
Buttrick & Co., for sapolio..	1 75
C. B. Coburn & Co., for cotton cord, waste, oil, etc.....	57 32
Columbian Insecticide Co., for liquid .....	15 00
Ellingwood & Co., for car- bolic acid .....	30
Daniel Gage, for ice .....	91 50
Johnson & Garvey, for condi- tion powders .....	6 00
James H. Harlow & Co., for naphthol and can .....	7 10
Theresa Kittredge, for Klean- sall .....	9 50
Talbot Dyewood and Chemi- cal Co., for chemicals ...	55
G. J. & D. Bradt, for crackers	36 00
Dickson Bros., for tea and sugar .....	5 10
V. G. Barnard, for stamps ..	21 00
Carter Ink Co., for ink .....	2 20
Dumas & Co., for blank books	79 00
Guy W. Hutchins, for stamp and pad .....	5 45
Thomas H. Lawler, for sta- tionery .....	20 50
J. Merrill & Son, for station- ery .....	7 50
Amount carried forward .....	<hr/> \$ 4,382 16

Amount brought forward .....	\$ 4,382 16
To Charles E. Perry & Co., for paper .....	291 07
G. C. Prince & Son, for sta- tionery .....	66 44
Sampson, Murdock & Co., for directory .....	2 00
Tilton & Co., for stationery.	4 10
M. G. Wight & Co., for paper	19 20
Courier-Citizen Co., for print- ing .....	291 85
Daily News Co., for advertis- ing .....	22 97
Lepine & Co., for advertising	10 00
Lowell Sun, for printing and advertising .....	46 00
Morning Mail Corp., for ad- vertising .....	35 44
Sunday Telegram, for adver- tising .....	9 57
The Detective Publishing Co., for subscriptions .....	27 50
Union Printing Co., for print- ing .....	7 50
Smith Premier Typewriter Co., for typewriter sup- plies, exchange of type- writers, etc .....	62 40
Adams & Co., for furniture..	55 50
L. W. Hawkes & Co., for mat- tresses .....	13 75
O'Donnell & Gilbride Co., for blankets and furniture..	31 90
Robertson & Co., for furnish- ings .....	5 25
H. Thompson, for brooms..	2 00
C. W. Durant, for badges...	22 00
Raphael Masstrangialo, for shoulder straps .....	13 40
Oak Hall Clothing Co., for gold lace .....	22 50
Wendell Fay & Co., for cloth	364 72
John J. Cluin, for badge and repairing clock .....	3 50
Amount carried forward .....	\$ 5,812 72

Amount brought forward.....	\$ 5,812 72
To E. D. Shadduck & Co., for clock .....	6 00
Lowell Rubber Co., for rub- ber rings .....	2 06
Henry W. Barnes, for cutting stripes.....	2 50
Cahill Bros., for shoeing horses .....	67 05
John J. Donnelly, for shoeing horses .....	152 90
O. K. Dexter, for shoeing horses .....	23 25
M. V. B. Libbey, for shoeing horses .....	59 55
Donovan Harness Co., for re- pairing harnesses .....	12 60
Ebert Harness Co., for re- pairing harnesses .....	47 10
H. F. Ebert, for repairing harnesses .....	2 75
George E. Hutchins, for horse cover .....	5 50
Fay Bros. & Hosford, for re- pairing carriages.....	105 20
Sawyer Carriage Co., for re- pairing carriages.....	226 45
C. N. Perkins & Co., for pa- trol.....	590 00
J. B. Cover & Co., for oats...	134 17
G. M. Foster, for hay .....	245 30
C. H. Cutter, for hay .....	7 57
Fred A. Fox, for hay .....	106 75
Jason Fuller, for hay.....	112 60
Wm. E. Livingston Co., for meal, oats, etc.....	41 15
Vigeant, Dumas & Co., for oats .....	153 37
O. D. Wilder, for oats and straw .....	143 34
Lawndale Farm, for board of horse .....	5 71
J. B. Goodwin, for screens...	13 25
J. S. Marion, for pictures...	19 00
Amount carried forward.....	\$ 8,097 84



Amount brought forward .....	\$ 8,097 84	
To F. H. Adams, for labor .....	30	
J. G. Gordon, for weighing coal.....	10 00	
Moore & Bennett Coal Co., for coal .....	508 05	
Stanley & Co., for wood.....	1 41	
E. A. Wilson & Co., for brick	7 75	
D. M. Prescott, for plastering	37 92	
F. E. Rollins, for typewriting	1 25	
C. J. Darling, for exchange of horses.....	100 00	
Morse Coach Co., for carriage hire .....	14 00	
Fred S. Osterhout, for car- riage hire.....	10 00	
J. H. Sparks, for carriage hire	26 50	
American Express Co., for transportation.....	4 05	
Hill Transfer Co., for trans- portation.....	4 02	
Man. & Concord Express Co., for transportation .....	50	
N. Y. & B. Des. Ex. Co., for transportation.....	2 90	
B. & M. R. R., for transport- ation.....	4 28	
N. Y., N. H. & H. R. R. Co., for transportation .....	6 58	
	<hr/>	\$ 8,837 35

# PLACING WIRES OF POLICE DEPARTMENT UNDERGROUND.

Appropriated .....	\$ 5,000 00	
	<u>                    </u>	\$ 5,000 00
		<u>                    </u>

## EXPENDITURE.

Paid W. E. Decrow, for box posts, complete .....	\$ 528 00	
	<u>                    </u>	\$ 528 00
Balance undrawn Dec. 31, 1900...		4,472 00
		<u>                    </u>
		\$ 5,000 00
		<u>                    </u>

## PUBLIC BUILDINGS, SALARIES.

Annual Appropriation .....	\$ 2,346 00	
	<u>          </u>	\$ 2,346 00
		<u>          </u>

### EXPENDITURES.

Paid Jos. S. Gillow, Superintendent, salary .....	\$ 1,800 00	
Charles Kidder, Clerk .....	451 50	
	<u>          </u>	\$ 2,251 50
Balance to General Treasury Fund .....		94 50
		<u>          </u>
		\$ 2,346 00
		<u>          </u>

## PUBLIC BUILDINGS, LABOR.

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Annual Appropriation .....	\$ 9,050 00	
	<hr/>	\$ 9,050 00
Received from sundry departments, for labor .....	\$ 1,105 36	
	<hr/>	1,105 36
		<hr/>
		\$ 10,155 36
		<hr/>

### EXPENDITURES.

Paid Sundry persons, for labor ..	\$ 9,781 99	
	<hr/>	\$ 9,781 99
Balance to General Treasury Fund .....		373 37
		<hr/>
		\$ 10,155 36
		<hr/>

## PUBLIC BUILDINGS, SUNDRIES.

Annual Appropriation .....	\$ 6,354 00	
Additional Appropriation .....	151 71	
	<hr/>	\$ 6,505 71
Received from sundry departments, for material and supplies .....	\$ 612 43	
	<hr/>	612 43
		<hr/>
		<u>\$ 7,118 14</u>

### EXPENDITURES.

Paid for LUMBER, HARD-  
WARE, etc:

To Burnham & Davis .....	\$ 1,188 33	
Frederick Conant .....	35 00	
Davis & Sargent .....	7 20	
Charles E. Howe & Co .....	455 25	
Amasa Pratt & Co .....	85 36	
Pratt & Forrest .....	150 20	
Wm. H. Wiggin .....	263 59	
Charles E. Adams .....	20 28	
Adams Hardware and Paint Co. ....	29 29	
American Bolt Co .....	3 04	
Bartlett & Dow .....	57 84	
Eagle Foundry Co .....	32 85	
E. P. Flanders & Co .....	3 00	
H. B. Shattuck & Son .....	84 01	
Thompson Hardware Co....	223 41	
	<hr/>	\$ 2,638 65
Amount carried forward .....		<u>\$ 2,638 65</u>



Amount brought forward..... \$ 2,638 65

Paid for SUNDRIES:

To Appropriation for Water Works, for water.....	\$ 51 70	
Lowell Electric Light Corp., for power.....	298 85	
N. E. Tel. and Teleg. Co. for service.....	110 63	
W. U. Teleg. Co., for telegrams.....	2 30	
H. R. Barker Mfg. Co., for valves, fittings, labor, etc.	74 74	
T. Costello & Co., for fittings and labor.....	51 90	
W.W. Carey, for planer knives	4 16	
E. J. Carroll & Co., for fittings and labor.....	10 69	
John Callaghan, for pails ....	6 00	
Drury & Green, for pipe, fittings and labor.....	12 97	
Farrell & Conaton, for fittings and labor.....	69 71	
Hanchett & McFadgen, for fittings and labor.....	4 03	
George E. Hutchins, for gaskets.....	10 28	
D. Lovejoy & Son, for steel..	2 24	
Lowell Steam Boiler Works, for steel and labor.....	54 24	
D. J. Leary, for fittings and labor.....	2 75	
Thomas Mather, for pipe and fittings.....	44 77	
W. A. Mack & Co., for repairing vane.....	1 45	
Mdsx. Machine Co., for fittings and labor.....	5 10	
A. Parsons, for blacksmithing	1 65	
Scannell & Wholey, for repairing boilers.....	114 15	
Tucke & Parker, for repairing electrical fixtures ...	19 37	
H. H. Wilder & Co., for iron, zinc, cement, labor, etc.	8 26	

Amounts carried forward.....	\$ 961 94	\$ 2,638 65
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Amounts brought forward . . . . .	\$ 961 94	\$ 2,638 65
Welch Bros., for fittings and labor . . . . .	119 92	
Henry F. Whiting, for covering pulley . . . . .	1 60	
C. Zimmer, for repairing hinges . . . . .	1 00	
Josiah Gates & Sons, for belting . . . . .	6 09	
L. W. Hawkes & Co., for leather . . . . .	4 80	
J. B. Currier, for coffin trimmings . . . . .	29 88	
Wm. L. Lockhart & Co., for coffin trimmings . . . . .	8 55	
O'Donnell & Gilbride Co., for cloth . . . . .	33 91	
American Distributing Co., Jos. E. Webber & Son's Branch, for alcohol . . . . .	113 50	
Charles E. Adams, for glass, sand paper, etc . . . . .	3 90	
C. B. Coburn & Co., for glass, shellac, paint, oil, etc . . . . .	334 86	
Crystal Oil Co., for oil . . . . .	4 75	
P. Dempsey & Co., for alcohol . . . . .	108 58	
A. L. Kittredge & Co., for bronze, brushes, oil, etc. . . . .	17 45	
Murphy Varnish Co., for varnish . . . . .	187 25	
Simpson & Rowland, for potash . . . . .	2 00	
P. P. Stiles & Co., for Bon Ami . . . . .	55	
Talbot Dyewood & Chemical Co., for muriatic acid . . . . .	2 45	
Edward Cawley for brick . . . . .	9 74	
Wm. E. Livingston, for cement, lime and sand . . . . .	24 95	
E. A. Wilson & Co., for brick, cement and lime . . . . .	178 30	
J. W. Bennett & Co., for repairing roof . . . . .	27 36	
J. G. Gordon, for weighing coal . . . . .	2 50	
Amounts carried forward . . . . .	<u>\$ 2,185 83</u>	<u>\$ 2,638 65</u>

Amounts brought forward.....	\$ 2,185 83	\$ 2,638 65
To B. & M. R. R., for trip ticket	20 25	
Mary C. Brennan, for type-writing .....	1 00	
J. M. Fellows, for stamp ....	1 50	
C. L. Kidder for stamps ....	2 00	
Courier-Citizen Co., for bill book.....	3 00	
F. N. Cambridge, for stationery .....	1 25	
Thomas H. Lawler, for stationery .....	75	
G. C. Prince & Son, for stationery .....	4 10	
Sampson, Murdock & Co., for directory .....	2 00	
Tilton & Company for stationery .....	2 05	
M. G. Wight & Co., for specification blanks.....	2 40	
Lowell Sun, for advertising..	1 75	
Union Printing Co., for printing .....	2 25	
C. H. Kimball & Co., for flag	5 00	
A. L. Butman, for harness and repairing .....	134 30	
A. H. Cluer, for blankets and robe .....	27 00	
Donovan Harness Co., for harness and repairing ..	54 00	
Ebert Harness Co., for ropes	1 20	
C. H. Hanson & Co., for blanket .....	3 00	
James F. Cahill, for shoeing horses .....	35 25	
John J. Donnelly, for shoeing horses .....	7 20	
Morse & Blakely, for shoeing horses .....	54 60	
Fay Bros. & Hosford, for wagon and repairing...	176 85	
F. B. Hill & Co., for repairing wagons .....	293 95	
H. C. Moore, for blacksmithing .....	35 41	
Amounts carried forward.....	<u>\$ 3,057 89</u>	<u>\$ 2,638 65</u>

Amounts brought forward . . . . . \$ 3,057 89 \$ 2,638 65

To Fred G. McGregor, for black-	
smithing . . . . .	7 39
Sawyer Carriage Co., for re-	
pairing wagon . . . . .	4 85
John Cross, for repairing flags	2 00
W. A. Snow & Co., for stall	
floors . . . . .	143 00
W. A. Sherman for profes-	
sional services . . . . .	9 00
Moore & Bennett Coal Co.,	
for coal . . . . .	98 08
V. G. Barnard, for stamps..	2 00
Merrimac House for re-	
freshments . . . . .	11 00
Norris Livery Co., for horse	175 00
J. E. Conant & Co., for board	
of horses . . . . .	394 26
P. F. McNulty, for board of	
horses . . . . .	521 43
Morse Coach Co., for carriage	
hire . . . . .	10 00
C. H. Hansom & Co., for	
teaming . . . . .	31 50
M. A. McKeon, for teaming.	1 00
Frank Richards, for teaming	1 00
American Express Co., for	
transportation . . . . .	1 40
B. & L. Des. Ex. Co., for	
transportation . . . . .	1 25
Hill Transfer Co., for trans-	
portation . . . . .	3 08
B. & M. R. R., for transpor-	
tation . . . . .	3 60
N. Y., N. H. & H. R. R. Co.,	
for transportation . . . . .	76

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4,479 49

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\$ 7,118 14

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## POUND KEEPER.

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Annual Appropriation .....	\$	5 00	
		<u>          </u>	\$ 5 00
			<u>          </u>

### EXPENDITURE.

Paid Lawrence J. Thyne, pound keeper .....	\$	5 00	
		<u>          </u>	\$ 5 00
			<u>          </u>



## RIFLE RANGE, JANITOR.

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Annual Appropriation .....	\$	456	25	
Additional Appropriation .....			1	25
			<hr/>	\$ 457 50
				<hr/>

### EXPENDITURES.

Paid Bert Smithson, janitor .....	\$	457	50	
			<hr/>	\$ 457 50
				<hr/>

RIFLE RANGE, PAINTING, ETC.

Annual Appropriation .....	\$ 100 00	
	<u>          </u>	\$ 100 00

EXPENDITURES.

Paid Appropriation for Public Buildings, Sundries, for paint, etc .....	\$ 49 77	
	<u>          </u>	49 77
Balance to General Treasury Fund .....		50 23
		<u>          </u>
		\$ 100 00

# RIFLE RANGE, TRAP DOORS, GRADING, AND SUNDRIES.

Annual Appropriation.....	\$ 200 00	
	<hr/>	\$ 200 00
		<hr/>

## EXPENDITURES.

Paid Joseph Peabody, Agt., for insurance .....	\$ 30 00	
Pratt & Forrest, for lumber	10 08	
Charles E. Adams, for hardware.....	3 85	
Adams Hardware and Paint Co., for sash cord .....	40	
O. A. Richardson's Sons, for targets and pasters.....	36 35	
Thompson Hardware Co., for hardware .....	1 50	
Tucke & Parker, for repairing telephones.....	35 31	
P. O'Hearn, for sand .....	12 50	
Town of Dracut, for taxes...	51 52	
	<hr/>	\$ 181 51
Balance to General Treasury Fund .....		18 49
		<hr/>
		\$ 200 00
		<hr/>

## SCHOOL DEPARTMENT.

Annual Appropriation .....	\$ 270,000 00	
Additional Appropriation .....	5,320 31	
	<hr/>	\$275,320 31
		<hr/>

### EXPENDITURES.

Paid A. K. Whitcomb, Superin- tendent, salary .....	\$ 3,000 00	
	<hr/>	\$ 3,000 00
Paid Truant Officers .....	\$ 3,800 02	
	<hr/>	3,800 02

### Paid for SERVICES OF TEACHERS:

In High School .....	\$ 26,377 75	
Grammar Schools .....	78,455 81	
Primary Schools .....	68,986 89	
Training School .....	10,486 03	
Kindergarten Schools .....	12,161 50	
Penmanship .....	1,111 50	
Drawing .....	1,250 00	
Music .....	1,122 00	
Sewing .....	794 00	
Military .....	250 00	
	<hr/>	200,995 48

Paid for Services of Assist- ants in Superintendent's Office .....	\$ 823 75	
	<hr/>	823 75
		<hr/>

Amount carried forward .....		\$208,619 25
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Amount brought forward . . . . . \$ 208,619 25

Paid for BOOKS:

To Allyn & Bacon . . . . .	\$ 105 38
American Book Co . . . . .	1,274 04
D. Appleton & Co . . . . .	3 71
Art Education . . . . .	2 20
Ainsworth & Co . . . . .	3 60
Edward E. Babb & Co . . . . .	495 90
Butler, Sheldon & Co . . . . .	24 67
Boston School Supply Co . . . . .	1,217 14
W. B. Clarke Co . . . . .	14 39
T. H. Caston & Co . . . . .	54 00
Dodd, Mead & Co . . . . .	75 75
Educational Publishing Co . . . . .	11 67
Emerson College of Oratory . . . . .	21 00
Ginn & Company . . . . .	1,157 61
Houghton, Mifflin & Co . . . . .	127 95
D. C. Heath & Co . . . . .	634 85
Henry Holt & Co . . . . .	250 90
Lee & Shepard . . . . .	22 84
Longmans, Green & Co . . . . .	28 05
J. B. Lippincott Co . . . . .	14 85
Maynard, Merrill & Co . . . . .	133 88
Patrick Murphy . . . . .	12 00
Richardson, Smith & Co . . . . .	238 51
Richardson & Co . . . . .	404 35
Rand, McNally & Co . . . . .	78 88
Scott, Forsman & Co . . . . .	2 78
Charles Scribner's Sons . . . . .	11 81
Benj. H. Sanborn & Co . . . . .	12 09
Sampson, Murdock & Co . . . . .	6 00
Silver, Burdett & Co . . . . .	438 41
Sibley & Ducker . . . . .	14 58
Thomas R. Shewell & Co . . . . .	150 00
Thompson, Brown & Co . . . . .	1,247 76
The Morse Co . . . . .	54 50
The McMillan Co . . . . .	153 15
The Werner Co . . . . .	4 50
University Publishing Co . . . . .	36 00
Williams & Rogers . . . . .	103 37
Werner School Book Co . . . . .	242 08
John Wiley & Sons . . . . .	3 00
E. and J. B. Young & Co . . . . .	3 12

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8,891 27

Amount carried forward . . . . .

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\$ 217,510 52



Amount brought forward . . . . . \$ 217,510 52

Paid for BLANK BOOKS,  
STATIONERY, PRINT-  
ING, etc:

To Amberg File and Index Co ..	\$	2 00
E. A. Burgess .....		8 60
Edward E. Babb & Co .....		346 70
Buckland Printing Co .....		20 50
Butterfield Printing Co .....		4 00
Arthur J. Barnes .....		9 00
Bigelow & Miller .....		8 50
J. P. Bradley .....		2 00
Boston School Supply Co....		5 00
Courier-Citizen Co .....		199 65
Cohen Bros .....		305 00
Dumas & Co .....		320 71
Eagle Pencil Co .....		183 20
F. J. Flemings .....		100 20
Ginn & Company .....		15 63
D. C. Heath & Co .....		48 33
Holden Book Cover Co .....		76 86
C. F. Hatch & Co .....		263 70
Henry Holt & Co .....		29
George E. Hutchins .....		1 70
George F. King & Co .....		366 50
E. L. Kellogg & Co .....		12 00
A. L. Kittredge & Co .....		53 95
Thomas H. Lawler .....		1,030 05
Library Bureau .....		1 20
Lowell Rubber Type Co ....		2 85
Lowell Sun .....		200 90
O. A. Libby .....		27 70
Morning Mail Corp .....		155 80
Fred Macey Co .....		49 20
Bunkio Matsuki .....		2 39
Neostyle Co .....		4 25
G. C. Prince & Son .....		107 65
George S. Perry & Co .....		268 15
Prang Educational Co .....		32 00
M. Steinert & Sons Company		54 98
H. B. Shattuck & Son .....		37 85
A. Storrs & Bement Co .....		45 20
Thorpe & Martin Co .....		142 50

Amounts carried forward . . . . . \$ 4,516 69 \$ 217,510 52

Amounts brought forward.....	\$ 4,516 69	\$217,510 52
To F. A. M. Tobin.....	41 84	
Tilton & Company .....	15 30	
Thompson & Hill.....	36 00	
Union Printing Co.....	17 25	
M. G. Wight & Co .....	353 58	
	<hr/>	4,980 66

## Paid for FUEL:

To Appropriation for Paupers, Almshouse .....	\$ 656 45	
D. W. Horne & Son .....	13 74	
Moore & Bennett Coal Co ....	14,329 96	
E. A. Wilson & Co .....	8 92	
John G. Gordon, for weighing coal .....	125 00	
	<hr/>	15,134 07

## Paid for SUNDRIES:

To Appropriation for School Houses, for labor and ma- terial .....	\$ 1,692 75	
Appropriation for High School Annex, for material.....	242 67	
Appropriation for Police, for services of officers .....	13 75	
Appropriation for Public Buildings, for labor.....	271 53	
Appropriation for Water Works, for water .....	1,261 64	
Lowell Gas Light Co., for gas	306 60	
Lowell Gas Light Co., for meter connections .....	1 00	
Lowell Electric Light Corp., for power .....	1,025 42	
Lowell Electric Light Corp., for lighting .....	56 15	
N. E. Tel. & Teleg. Co., for service.....	210 76	
Lowell Index Co., for rent of telephone index .....	2 00	
Burnham & Davis, for lumber	64 93	
Pratt & Forrest, for lumber.	16 00	
Wm. H. Wiggin, for lumber	4 65	
	<hr/>	
Amounts carried forward.....	\$ 5,169 85	\$237,625 25

Amounts brought forward.....	\$ 5,169 85	\$ 237,625 25
To Charles E. Adams, for hardware, etc.....	18 40	
Adams Hardware and Paint Co., for hardware, paints, brushes, etc.....	210 45	
Bartlett & Dow, for hardware and tools .....	15 24	
W. T. S. Bartlett, for hardware, etc.....	53 80	
J. C. Bennett, for baskets and hardware .....	7 40	
Boutwell Bros., for iron and steel .....	21 69	
E. P. Flanders & Co., for hardware .....	12 10	
Henry C. Girard, for keys ..	1 15	
H. B. Shattuck & Son, for hardware, tools, Indian clubs, etc .....	145 03	
Thompson Hardware Co., for hardware, lathes, tools, etc .....	797 97	
H. R. Barker Mfg. Co., for bolts, plates, screws, labor, etc .....	98 39	
J. F. Bickford, for repairing and sharpening scissors .....	21 40	
John Callaghan, for coal hods and drinking cups .....	20 60	
W. W. Carey, for planer, castings, labor, etc .....	266 55	
Chandler & Farqhar, for screws and nuts .....	4 75	
Derby & Morse, for electrical work .....	221 43	
A. W. Davis, for electrical work .....	1 00	
W. S. Davis, for electrical work .....	1 50	
Eagle Foundry Co., for castings .....	57	
Charles E. Gee, for labor, etc.	5 40	
Hinckley & May, for zincs, labor, etc .....	105 65	
Amounts carried forward.....	\$ 7,200 32	\$ 237,625 25

Amounts brought forward . . . . .	\$ 7,200 32	\$237,625 25
To Hendey Machine Co., for vise	270 00	
Harry F. Harding, for electrical work . . . . .	11 20	
Keystone Wire Matting Co., for wire mats . . . . .	12 15	
Joel Knapp & Son, for repairing lawn mower . . . . .	1 25	
W. A. Mack & Co., for chimney, fitting forges and fans . . . . .	398 00	
N. E. Motor Co., for repairing motor . . . . .	24 14	
Norton Emery Wheel Co., for grinder beads and reamer . . . . .	15 00	
Pevey Bros., for sand . . . . .	3 85	
O. A. Richardson's Sons, for keys . . . . .	1 00	
Scannell & Wholey, for labor	1 10	
Tucke & Parker, for electrical works . . . . .	395 17	
Washburn Shops of the Worcester Polytechnic Institute, for upright drill . . . . .	42 75	
Henry F. Whiting, for belting and lacing . . . . .	108 37	
H. H. Wilder & Co., for hods, pipe, fittings, labor, etc .	83 81	
C. Zimmer, for repairing guns, etc. . . . .	75 75	
Charles E. Adams, for alcohol, paint, brushes, etc. .	39 75	
C. B. Coburn & Co., for oil, brushes, mops, paint, etc	169 80	
Walter Coburn & Co., for waste . . . . .	7 50	
Crystal Oil Co., for oil . . . . .	16 53	
Carleton & Hovey, for mercury . . . . .	3 25	
Charles E. Carter, for glue and isinglass . . . . .	2 50	
Amounts carried forward . . . . .	\$ 8,883 19	\$ 237,625 25

Amounts brought forward.....	\$ 8,883 19	\$ 237,625 25
To Dickson Bros, for sugar barrels.....	1 80	
Ellingwood & Co., for vaccine points .....	10 50	
Eimer & Amend, for laboratory supplies .....	21 13	
Franklin Educational Co., for laboratory supplies .....	140 64	
Greenwood Bros., for jar....	50	
Frank C. Goodale, for mucilage .....	8 10	
C. L. Ingalls, for sawdust ...	2 00	
L. E. Knott Apparatus Co., for laboratory supplies..	119 77	
N. E. Dust Layer Co., for dust layer .....	1 25	
O. B. Ranlett, for matches and soap .....	3 67	
Red Cross Chemical Co., for disinfectant .....	13 50	
Caleb L. Smith, for flour ....	15	
Savena Manufacturing Co., for washing powder....	14 25	
W. H. Spaulding & Co., for repairing shades .....	73 57	
Simpson & Rowland, for soap	7 15	
Talbot Dyewood and Chemical Co., for salamoniac ..	33 55	
The Talbot Co., for Tabo ...	5 34	
Wadsworth Howland & Co., for paints .....	5 60	
Adams & Co., for furniture.	215 63	
Auburn Brush and Mop Co., for brushes .....	6 00	
S. Abels, for needles.....	54	
B. F. Butler Post 42, G.A.R., for chairs.....	11 50	
Patrick Brady, for repairing chairs .....	35 25	
Chandler Adjustable Chair and Desk Co., for desks.	235 25	
Cohen Bros., for brushes....	6 00	
Cook, Taylor & Co., for cloth	97 05	
Amounts carried forward .....	<u>\$ 9,952 88</u>	<u>\$ 237,625 25</u>



Amounts brought forward . . . . .	\$ 9,952 88	\$237,625 25
To P. P. Caproni & Bro., for studies . . . . .	22 74	
John J. Cluin, for clocks and repairing . . . . .	7 50	
John Cross, for use of tents . . . . .	10 25	
Clinton Wire Cloth Co., for mats . . . . .	3 76	
Continental Brush Co., for brushes . . . . .	42 00	
George H. Gage, for repairing clocks . . . . .	32 00	
Grant Jewelry Co., for medals . . . . .	19 00	
J. L. Hammett & Co., for paper, slate, brushes, etc. . . . .	664 04	
George E. Hutchins, for hose . . . . .	19 60	
Annie Hannafin, for repairing and laundering curtains . . . . .	2 00	
Mrs. W. J. Johnson, for ribbon . . . . .	39 20	
A. L. Kittredge & Co., for oil, tacks, repairing shades, etc . . . . .	239 97	
Lowell Steam Carpet Cleaning Works, for cleaning carpet . . . . .	3 46	
George L. Lawson, for needles . . . . .	80	
Abbott Lawrence, for repairing clocks . . . . .	15 25	
Lowell Rubber Co., for hose . . . . .	5 00	
McNabb Bros., for laundering . . . . .	4 08	
Marshall & Crosby, for repairing door . . . . .	2 50	
George E. Maker, for pictures and frames . . . . .	18 12	
O'Donnell & Gilbride Co., for sewing material, cloth, etc . . . . .	224 46	
A. G. Pollard & Co., for cloth . . . . .	18 75	
George S. Perry & Co., for kindergarten supplies . . . . .	593 74	
Robertson & Co., for enamel cloth and rug . . . . .	3 20	
Amounts carried forward . . . . .	<u>\$11,944 30</u>	<u>\$237,625 25</u>

Amounts brought forward . . . . .	\$ 11,944 30	\$ 237,625 25
To W. H. Spalding & Co., for shades and fixtures . . . .	14 75	
B. F. Sturtevant & Co., for carbon brushes . . . . .	68	
Simmons Manufacturing Co., for sweepers . . . . .	4 00	
James Stanley, for repairing clock . . . . .	1 00	
N. M. Whitten, for sewing material . . . . .	5 44	
Mrs. N. L. Wheeler, for scissors . . . . .	13 50	
V. G. Barnard, for stamps, maps, money orders . . . .	94 19	
Charles F. Carr, for cleaning armory . . . . .	40 00	
Mary Finnegan, for labor . . .	7 50	
Maud A. Edson, monitor . . .	10 00	
Lillian Morrison, monitor . . .	19 50	
Mrs. L. A. Strout, monitor . .	19 00	
Joshua Chamberlin, oration . .	50 00	
J. W. Stetson, oration . . . . .	40 00	
A. K. Whitcomb, for sundry expenses . . . . .	85 00	
Osborne H. Cilley, quarter- master . . . . .	50 00	
Michael J. Lynch, janitor . . .	7 50	
James McCarty, janitor . . . .	2 50	
John Scott, janitor . . . . .	1 25	
Thomas M. Graves, for writ- ing diplomas and com- missions . . . . .	47 60	
Alfred L. Robbins Co., for models . . . . .	51 00	
Michael Finnegan, for ser- vices . . . . .	1 00	
Juanita Godee, for playing piano . . . . .	16 50	
George F. Sturtevant, cash paid for screening coal . . . .	4 00	
B. M. and M. E. Hutchins, for typewriting . . . . .	75	
J. Fitzgerald, for labor . . . . .	50 75	
Amounts carried forward . . . . .	\$12,581 71	\$ 237,625 25

Amounts brought forward . . . . .	\$ 12,581 71	\$ 237,625 25
To T. F. Fisher, for services at Manual Training School	38 25	
John Scott, janitor . . . . .	15 00	
Lowell High School Base Ball Club, for game . . . . .	19 00	
Mdsx. County Truant School, for board of truants . . . .	3,222 26	
Colby T. Kittredge, for ex- amining candidates for officers in High School Battalion . . . . .	25 00	
Philip McNulty, for examin- ing candidates for officers in High School Battalion	25 00	
George E. Worthen, for ex- amining candidates for officers in High School Battalion . . . . .	25 00	
F. A. Hildreth, for rent of land to Oct. 10, 1900 (7 years) Lakeview Avenue	175 00	
Mdsx. North Agricultural Society, for rent of Fair Grounds . . . . .	10 00	
C. E. Austin, for pitch pipes.	3 00	
Helen A. Dimon, for type- writer ribbon . . . . .	2 00	
James B. Field, for profes- sional services . . . . .	2 00	
Wm. A. Johnson, for vaccin- ating . . . . .	9 00	
Oliver Typewriter Co., for typewriters . . . . .	89 00	
R. A. Griffiths, for boquets.	3 00	
Whittet & Company, for dec- orations . . . . .	30 00	
Lowell & Suburban Street Railway Co., cars for High School Battallion .	53 00	
J. H. Jeanotte, for music . . . .	45 00	
Hibbard's Orchestra, for music . . . . .	60 00	
National Band, for music..	50 00	
Amounts carried forward . . . . .	\$ 16,482 22	\$ 237,625 25

Amounts brought forward.....	\$ 16,482 22	\$ 237,625 25
To Page Catering Co., for lemonade.....	15 00	
Peter Gallagher, for drums and repairing.....	137 00	
J. W. Pepper, for trumpets .	13 50	
Wm. Read & Sons, for sword hangers.....	8 00	
Irvin A. Foote, for care of pianos.....	132 00	
W. A. Owen, for arranging music.....	7 00	
George F. Allen, for blankets	6 95	
A. H. Cluer, for repairing harness.....	75	
Ebert Harness Co., for repairing harness.....	11 00	
H. F. Ebert, for repairing harness.....	1 95	
Fay Bros. & Hosford, for sleigh and repairing wagon.....	85 00	
Sawyer Carriage Co., for repairing wagon.....	42 43	
Edwin Sanborn, for repairing wagon.....	5 00	
John J. Donnelly, for shoeing horses.....	73 55	
H. W. Tarbell, for trees....	16 00	
J. H. Sparks, for board of horses.....	526 46	
Charles Griffin, for teaming and labor.....	236 53	
C. H. Hanson & Co., for teaming.....	1 50	
Ed. Judge, for teaming.....	35 00	
Am. Ex. Co., for transportation.....	42 65	
B. & L. Des. Ex. Co., for transportation.....	5 75	
Conway Transfer Co., for transportation.....	4 60	
Hill Transfer Co., for transportation.....	49 76	
Amounts carried forward.....	\$ 17,939 60	\$ 237,625 25

Amounts brought forward . . . . .	\$ 17,939 60	\$ 237,625 25
To Man. & Con., N. H., Ex. Co., for transportation . . . . .	24 75	
N. Y. & B. Des. Ex. Co., for transportation . . . . .	7 35	
B. & M. R. R., for transport- ation . . . . .	19 18	
N. Y., N. H. & H. R. R. Co., for transportation . . . . .	15 41	
G. E. Stanley, for teaming . .	116 33	
	<hr/>	18,122 62

## Paid for EVENING SCHOOLS:

To Sunday persons, teachers . . .	\$ 12,166 75	
Sundry persons, janitors . . .	1,350 00	
Lowell Gas Light Co., for gas	1,068 60	
Lowell Electric Light Corp., for lights . . . . .	392 46	
Boston School Supply Co., for supplies . . . . .	153 36	
Ginn & Company, for books.	41 67	
Houghton, Mifflin & Co., for books . . . . .	8 50	
Thomas H. Lawler, for sta- tionery . . . . .	7 30	
Isaac Pitman & Sons, for books . . . . .	11 52	
Practical Text Book Co., for books . . . . .	18 00	
G. C. Prince & Son, for note books . . . . .	8 37	
Union Library Association, for books . . . . .	24 67	
M. G. Wight & Co., for en- rollment books . . . . .	16 90	
Bigelow Press, for printing .	17 50	
Courier-Citizen Co., for print- ing . . . . .	2 00	
Morning Mail Corp., for print- ing . . . . .	40 25	
Union Printing Co., for print- ing . . . . .	7 20	
Robertson & Co., for use of tables, divans and chairs	4 00	
	<hr/>	
Amounts carried forward . . . . .	\$ 15,339 05	\$ 255,747 87



Amounts brought forward.....	\$ 15,339 05	\$ 255,747 87
To Helen A. Dimon, for type-writing .....	10 00	
Thomas M. Graves, for writing diplomas .....	14 50	
American Orchestra, for services.....	27 00	
Thomas P. Boulger, for services.....	7 00	
Paul R. Burt, for decorations.....	10 00	
J. F. Bickford, for repairing typewriters .....	32 50	
Frost & Adams Co., for compasses .....	7 20	
O'Donnell & Gilbride Co., for ribbon .....	8 00	
C. W. Durant, for police badge.....	1 25	
Dickson Bros., for sugar barrels .....	40	
Lowell Bill Posting Co., for posting .....	3 00	
Merrimac House, for posting .....	1 50	
Hill Transfer Co., for transportation.....	2 27	
F. W. Putnam, for teaming..	20 00	
	<hr/>	15,483 67

Paid for DRAWING  
SCHOOLS:

To Sundry persons, teachers ...	\$ 3,776 50	
Sundry persons, janitors....	89 00	
Mary E. Cushing, services..	5 00	
Lowell Electric Light Corp., for lights .....	160 27	
N. A. Davis, for labor.....	7 00	
George Fitzgerald, for labor .....	15 75	
H. R. Barker Mfg. Co., for chimneys and reflectors .....	8 50	
C. B. Coburn & Co., for shellac, alcohol, etc .....	13 60	
	<hr/>	
Amounts carried forward.....	\$ 4,075 62	\$ 271,231 54

Amounts brought forward . . . . .	\$ 4,075 62	\$271,231 54
To P. P. Caproni & Bros., for plaster . . . . .	6 70	
Wm. E. Livingston Co., for cement . . . . .	4 20	
G. C. Prince & Son, for sta- tionery . . . . .	75	
Merrimac House, for posting	1 50	
	<hr/>	4,088 77
		<hr/>
		\$275,320 31
		<hr/>

## SCHOOL HOUSES, LABOR, INCLUDING CLERK.

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Annual Appropriation .....	\$ 10,700 00		
		\$ 10,700 00	
Received from sundry depart- ments, for labor .....	\$ 1,282 82		
		1,282 82	
		\$ 11,982 82	

### EXPENDITURES.

Paid Sundry persons, for labor	\$ 11,744 14		
		\$11,744 14	
Balance to General Treasury Fund .....			
		238 68	
		\$ 11,982 82	

## SCHOOL HOUSES, JANITORS.

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Annual Appropriation . . . . .	\$29,200 00	
Additional Appropriation . . . . .	158 50	
	<hr/>	\$29,358 50
		<hr/>

### EXPENDITURES.

Paid Sundry persons, for services as janitors . . . . .	\$29,358 50	
	<hr/>	\$29,358 50
		<hr/>

## SCHOOL HOUSES, KALSOMINING.

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Annual Appropriation .....	\$ 600 00	
	<hr/>	\$ 600 00
		<hr/>

### EXPENDITURES.

Paid for KALSOMINING:

To Matthias F. Conner .....	\$ 530 00	
D. Moody Prescott .....	70 00	
	<hr/>	\$ 600 00
		<hr/>



# SCHOOL HOUSES, SANITARIES, FRANK- LIN AND CENTRAL STREET SCHOOLS.

Annual Appropriation.....	\$ 2,400 00	
	<u>                    </u>	\$ 2,400 00

## EXPENDITURES.

To Appropriation for Public		
Buildings, Sundries.....	\$ 100 50	
Drury & Green.....	354 99	
Scott & O'Day.....	742 88	
J. W. Stewart .....	881 98	
	<u>                    </u>	\$ 2,080 35
Balance to General Treasury		
Fund .....		319 65
		<u>                    </u>
		\$ 2,400 00

## SCHOOL HOUSES, SUNDRIES.

Annual Appropriation .....	\$ 2,700 00	
Additional Appropriation .....	85 78	
	<hr/>	\$ 2,785 78
Received from sundry departments, for material....	\$ 1,237 33	
	<hr/>	1,237 33
		<hr/>
		\$ 4.023 11
		<hr/> <hr/>

### EXPENDITURES.

Paid for LUMBER, HARD-  
WARE, etc:

To Burnham & Davis .....	\$ 326 20	
Davis & Sargent .....	61 32	
Howe Lumber Co .....	2 88	
Pratt & Forrest .....	39 80	
Wm. H. Wiggin .....	292 49	
Adams Hardware & Paint Co.	30 43	
Charles E. Adams .....	16 27	
Bartlett & Dow .....	14 36	
J. C. Bennett .....	9 20	
Eagle Foundry Co. ....	8 58	
E. P. Flanders & Co. ....	17 75	
H. B. Shattuck & Son .....	108 81	
Thompson Hardware Co....	3 140	
	<hr/>	\$ 958 23

Paid for SUNDRIES:

To Appropriation for Water Works, for water .....	\$ 3 48	
V. G. Barnard, for stamps ..	2 00	
	<hr/>	
Amounts carried forward .....	\$ 5 48	\$ 958 23

Amounts brought forward .....	\$	5 48	\$	958 23
To E. P. Bryant, for repairing poker .....		75		
H. R. Barker Mfg. Co., for pipe, fittings and labor .....		172 08		
John H. Barry, for pipe, fit- tings and labor .....		44 55		
John Callaghan, for heater and labor .....		4 35		
Derby & Morse, for fuse metal and wire .....		5 60		
Drury & Green, for cocks, fittings, labor, etc .....		27 45		
Cornelius Desmond, Agt., for blacksmithing .....		15 00		
Farrell & Conaton, for pipe, fittings and labor .....		86 66		
Fuller & Warren Warming and Ventilating Co., for closet grates .....		5 76		
F. B. Hill & Co., for black- smithing .....		21 20		
Hanchett & McFadgan, for fittings and labor .....		5 25		
A. P. Knapp, for pokers ....		9 79		
Joel Knapp & Son, for sharp- ening lawn mowers .....		1 25		
Lowell Steam Boiler Works, for grates and labor ....		49 75		
Thomas Mather, for pipe, fittings, etc .....		43 58		
Mdsx. Machine Co., for fit- tings .....		59 25		
W. A. Mack & Co., for repair- ing roofs and furnace ...		559 37		
Rice & Company, for wire guards .....		5 35		
Joseph V. Sweeney, for re- pairing valves .....		3 70		
Scott & O'Day, for fittings, labor, etc .....		21 57		
Scannell & Wholey, for re- pairing boilers .....		2 25		
Tucke & Parker, for repairs		60 22		
Amounts carried forward .....	\$	1,210 21	\$	958 23

Amounts brought forward . . . . .	\$ 1,210 21	\$ 958 23
To Welch & Danahy, for fittings and labor . . . . .	10 65	
Welch Bros., for closet, fit- tings and labor . . . . .	127 72	
H. H. Wilder & Co., for grate and bed . . . . .	3 00	
Charles E. Adams, for glass, paint, glue, brushes, etc. . . . .	83 39	
F. M. Bill & Co., for soap . . . . .	3 00	
C. B. Coburn & Co., for paint, oil, can, benzine, turpen- tine, etc. . . . .	169 08	
Crystal Oil Co., for oil . . . . .	23 15	
Josiah Gates & Sons, for leather . . . . .	40	
George E. Hutchins, for hose . . . . .	7 50	
A. L. Kittredge & Co., for oil and lead . . . . .	191 80	
Murphy Varnish Co., for varnish . . . . .	92 75	
Talbot Dyewood & Chemical Co., for alum . . . . .	1 65	
Chandler Adjustable Chair and Desk Co., for pedes- tal irons . . . . .	6 00	
O'Donnell & Gilbride Co., for felting . . . . .	51 35	
Bigelow & Miller, for printing . . . . .	5 00	
Union Printing Co., for print- ing . . . . .	2 25	
Edward Cawley, for brick . . . . .	142 50	
Gumb Bros., for stone and labor . . . . .	33 83	
Wm. E. Livingston, for sand and lime . . . . .	35 34	
P. H. Meehan & Co., for re- pairing roofs . . . . .	387 20	
Samuel E. Snow, for white- wash brushes . . . . .	12 00	
E. A. & A. T. Smith, for con- crete . . . . .	5 35	
E. A. Wilson & Co., for hard brick . . . . .	104 92	
Amounts carried forward . . . . .	<u>\$ 2,710 04</u>	<u>\$ 958 23</u>

Amounts brought forward . . . . .	\$ 2,710 04	\$ 958 23
To J. H. Walker, for plastering . . . . .	21 48	
Thomas H. Elliott, for rent of land . . . . .	62 50	
J. E. Conant & Co., for board of horses . . . . .	263 56	
F. B. Hill & Co., for repairing wagon . . . . .	6 80	
Am. Ex. Co., for transportation . . . . .	50	
	<hr/>	3,064 88
		<hr/>
		\$ 4,023 11
		<hr/>



## HIGH SCHOOL ANNEX.

Balance undrawn, Jan. 1, 1900 . . .	\$ 16,804 85	
	<hr/>	\$ 16,804 85
Appropriated . . . . .	\$ 45,000 00	
	<hr/>	45,000 00
		<hr/>
		\$ 61,804 85
Received from Appropriations for Schools, for labor and ma- terial . . . . .	\$ 242 67	
Received from Pratt & Forrest, for overdraft . . . . .	54 16	
	<hr/>	296 83
		<hr/>
		\$ 62,101 68
		<hr/> <hr/>

### EXPENDITURES.

#### Paid for SUNDRIES:

To Sundry persons, for labor: . . .	\$ 6,872 10
Appropriation for Water Works, for water . . . . .	124 01
Harry Prescott Graves, for services as architect . . . .	2,300 00
American Bolt Co., for iron work . . . . .	10,255 88
H. R. Barker Mfg. Co., for heating and ventilating plant . . . . .	6,401 00
J. W. Bennett Co., for roofing	755 81
Matthias Conner, for plaster- ing . . . . .	2,788 66
	<hr/>
Amount carried forward . . . . .	\$ 29,497 46

Amount brought forward .....	\$ 29,497 46
To T. Costello & Co., for cornice work .....	466 00
Farrell & Conaton, for plumb- ing and gas fittings .....	4,023 00
W. H. Fuller, for foundation, pointing wall, concreting basin, etc .....	1,375 24
Tucke & Parker for electri- cal work .....	1,393 92
James H. Walker, for brick work .....	11,644 37
F. B. Hill & Co., for black- smithing .....	6 35
Burnham & Davis, for lumber	1,096 52
J. E. Henry & Sons, for lum- ber .....	218 16
Charles E. Howe & Co., for lumber .....	1,651 86
Pratt & Forrest, for lumber	903 19
Amasa Pratt & Co., for lum- ber .....	1,008 00
Wm. H. Wiggin, for lumber.	1,252 30
W. T. S. Bartlett, for screws and pulleys .....	94 54
E. P. Flanders & Co., for plaster bead .....	75 00
H. B. Shattuck & Son, for hardware .....	265 47
Thompson Hardware Co., for keys and hardware .....	50 93
Adams Hardware & Paint Co., for filler .....	17 22
Staples Bros., for building drain .....	52 50
Courier-Citizen Co., for ad- vertising .....	10 00
Daily News Co., for adver- tising .....	13 33
Lowell Sun, for advertising..	4 68
Morning Mail Corp., for ad- vertising .....	11 00
Sunday Telegram, for adver- tising .....	2 70
Amount carried forward .....	<hr/> \$55,133 74

Amount brought forward.....	\$ 55,133 74	
To B. & M. R. R., for transportation.....	14 70	
G. E. Stanley, for transportation.....	3 50	
	<hr/>	55,151 94
Balance undrawn Dec. 31, 1900 ..		6,949 74
		<hr/>
		\$ 62,101 68
		<hr/>

## CARTER STREET SCHOOL HOUSE.

Balance undrawn Jan. 1, 1900.....	\$ 840 80	
	<u>          </u>	\$ 840 80
Paid H. H. Wilder & Co., balance due on contract and extras on heating and ventilating plant .....	\$ 585 67	
	<u>          </u>	*\$585 67
Balance to General Treasury Fund .....		255 13
		<u>          </u>
		\$ 840 80
		<u>          </u>

\* To this amount add the sum of \$48,691.18 expended previous to January 1, 1900, making total cost of land, building, and furnishings, \$49,276 85.

## SEWER CONSTRUCTION.

Annual Appropriation .....	\$10,000 00	
Additional Appropriation .....	95,000 00	
	<hr/>	\$ 105,000 00
Received from Appropriation for Sewer Maintenance, for services of George C. Evans .....	\$ 924 00	
Edward Dillon, for overdraft	3 00	
	<hr/>	927 00
		<hr/>
		\$105,927 00
		<hr/>

### EXPENDITURES.

Paid Sundry persons, for labor..	\$73,374 56
Appropriation for Engineer- ing .....	1,773 76
Appropriation for Police ...	4 13
Appropriation for Sewer Maintenance, for use of derrick and engine .....	822 24
Appropriation for Streets, horses .....	500 00
Appropriation for Streets, labor .....	2,021 56
Appropriation for Water Works .....	338 17
Burnham and Davis, for lumber .....	477 56
Frederick Conant, for lum- ber .....	62 14
	<hr/>
Amount carried forward .....	\$ 79,374 12



Amount brought forward.....	\$ 79,374 12
Paid Davis & Sargent, for lumber	4 86
C. M. Holmes, for lumber..	20
Charles E. Howe, for lumber	122 23
Howe Lumber Co., for lum- ber .....	1 42
Assignees Howe Lumber Co., for lumber.....	17 20
Amasa Pratt & Co., for lum- ber .....	207 27
Pratt & Forrest, for lumber	3 31
Wm. H. Wiggin, for lumber	1,313 29
Charles E. Adams, for hard- ware and tools .....	37 77
Adams Hardware and Paint Co., for hardware and tools .....	84 95
Bartlett & Dow, for hard- ware.....	30 39
Boutwell Bros., for iron ....	54 23
H. R. Barker Mfg. Co., for pipe, plugs, etc.....	13 76
W. T. S. Bartlett, for tools .	21 98
Concord Foundry Co., for castings .....	474 00
Edward Cawley, for pipe ..	16 25
M. J. Donovan & Co., for cast iron water pipe ...	627 23
Eagle Foundry Co., for cast- ings .....	2,938 00
Charles E. Gee, for repairs.	47 25
Arthur P. Knapp, for rods, nuts and washers.....	21 22
A. R. Kingsbury, for black- smithing .....	9 80
Staples Bros., for pipe ....	2,580 82
Middlesex Machine Co., for fittings .....	3 56
Thompson Hardware Co., for hardware, exploders, etc .....	153 49
J. W. Stewart, for pails, pipe fittings, etc.....	20 27
Amount carried forward.....	<u>\$ 88,178 87</u>

Amount brought forward . . . . .	\$ 88,178 87
Paid H. B. Shattuck & Son, for hardware . . . . .	21 09
Scannell & Wholey, for re- pairs . . . . .	2 50
Tucke & Parker, for blast- ing wire . . . . .	3 85
Union Brass Foundry, for composition . . . . .	2 63
Welch Bros., for pipe, fit- tings and labor . . . . .	447 94
H. H. Wilder & Co., for dip- pers . . . . .	1 26
Daniel Gage, for wood . . . .	3 00
D. W. Horne & Son, for coal .	54 29
Heirs of Henry Emery, for sand . . . . .	117 84
Wm. E. Livingston, for ce- ment, etc . . . . .	2,390 58
E. A. Wilson & Co., for brick and cement . . . . .	4,708 97
Crystal Oil Co., for oil . . . .	55 72
C. B. Coburn & Co., for oil, hose, rope, etc . . . . .	431 17
M. Cohen & Son, for bags . .	45 25
G. M. Foster, for bags . . . .	11 25
F. D. Goldman, for bags . . . .	95
O. D. Wilder, for bags . . . .	17 15
L. F. Kittredge, for chains and hooks . . . . .	21 25
A. L. Ready & Son, for canvas	98 40
Pawtucketville Cash Groce- ry, for soda and oil . . . . .	1 91
George H. Sampson, for forcite and tools . . . . .	234 50
F. A. Tuttle, for powder . .	501 00
J. B. Cover & Co., for oat meal . . . . .	41 05
T. J. McDonald, for oat meal	19 25
George E. Hutchins, for rub- ber boots . . . . .	88 06
E. Lavery, for repairing boots . . . . .	1 90
Lowell Rubber Co., for rub- ber boots . . . . .	25 20
Amount carried forward . . . . .	<hr/> \$ 97,526 83

Amount brought forward . . . . .	\$ 97,526 83	
Paid Albert J. Fralick, for use of boat . . . . .	2 00	
James Haggerty, for use of barn . . . . .	12 00	
Bridget C. Brogan, for dam- age to property on Wood- ward Avenue . . . . .	35 00	
Edward Mooney, for dam- age to property on Suf- folk Street . . . . .	125 00	
Kate M. Snyder, for damage to property on Branch and Queen Streets . . . . .	300 00	
Lowell Waste Co., for draw- ing off water . . . . .	42 00	
Stead Tanning and Supply Co., for opening and clos- ing Massic Falls . . . . .	285 00	
Charles H. Clapp, for teaming	13 00	
E. Duren, for teaming . . . . .	18 00	
C. H. Hanson & Co., for teaming . . . . .	509 92	
D. W. Horne & Son, for coal and teaming . . . . .	134 63	
Mdsx. Coal Co., for teaming	2 00	
Joseph Mullin, for teaming.	10 00	
Moore & Bennett Coal Co., for coal . . . . .	12 05	
J. B. Sabre, for teaming . . . . .	14 00	
Benj. Vincent, for teaming.	4 00	
James McLean, for teaming	1 00	
Am. Ex. Co., for transport- ation . . . . .	15	
B. & L. Des. Ex. Co., for transportation . . . . .	85	
B. & M. R. R., for transport- ation . . . . .	113 59	
George E. Stanley, for trans- portation . . . . .	1 50	
	<hr/>	99,162 52
Balance to General Treasury Fund . . . . .		6,764 48
		<hr/>
		\$105,927 00

## SEWER MAINTENANCE, LABOR.

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Annual Appropriation .....	\$11,464 00	
	<hr/>	\$11,464 00
Received from sundry persons, cash returned to Treasury..	\$ 18 25	
	<hr/>	18 25
		<hr/>
		\$11,482 25
		<hr/>

### EXPENDITURES.

Paid Sundry persons, for labor..	\$10,218 11	
	<hr/>	\$10,218 11
Balance to General Treasury Fund .....		1,264 14
		<hr/>
		\$11,482 25
		<hr/>

## SEWER MAINTENANCE, INSPECTOR.

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Annual Appropriation .....	\$	936 00	
Additional Appropriation .....		3 00	
		<hr/>	\$ 939 00
			<hr/>

### EXPENDITURE.

Paid George H. Frye, Inspector.	\$	939 00	
		<hr/>	\$ 939 00
			<hr/>



SEWER MAINTENANCE, TIMEKEEPER.

Annual Appropriation .....	\$ 600 00	
	<u>          </u>	\$ 600 00
Balance to General Treasury Fund .....	\$ 600 00	
	<u>          </u>	<u>\$ 600 00</u>

## SEWER MAINTENANCE, SUNDRIES.

Annual Appropriation .....	\$ 2,475 00	
Additional Appropriation .....	67 47	
	<hr/>	\$ 2,542 47
Received from sundry departments, for labor and material .....	\$ 866 42	
	<hr/>	866 42
		<hr/>
		<u>\$ 3,408 89</u>

### EXPENDITURES.

Paid for LUMBER, HARD-  
WARE, etc:

To Burnham & Davis .....	\$ 12 39
Howe Lumber Co.....	9 00
Wm. H. Wiggin .....	2 89
Adams Hardware and Paint Co.....	1 20
Charles E. Adams .....	26 07
Bartlett & Dow .....	158 22
W. T. S. Bartlett .....	77 70
J. C. Bennett .....	14 80
Boutwell Bros .....	26 85
Concord Foundry Co .....	50 40
Doherty Bros .....	30 27
E. P. Flanders & Co .....	12 00
George W. Hunt & Co .....	27 44
Horace B. Shattuck & Son...	386 55
Thompson Hardware Co....	1 36
	<hr/>
Amount carried forward .....	\$ 837 14

Amount brought forward.....	\$ 837 14	
Conners Bros .....	15 80	
Wm. E. Livingston .....	6 90	
Staples Bros.....	12 91	
E. A. Wilson & Co.....	5 68	
	<hr/>	\$ 878 43

## Paid for SUNDRIES:

To Appropriation for Engineer- ing .....	545 75	
Appropriation for Willard & Humphrey Streets Sewer, for brick and cement....	21 56	
Appropriation for Streets, horses .....	93 37	
Appropriation for Streets, hay, grain, etc.....	648 00	
Appropriation for Streets, lumber, hardware, etc..	1 10	
Appropriation for Streets, labor .....	35 25	
Lowell Electric Light Corp., for lights .....	10 11	
N. E. Tel. & Telg. Co., for service.....	52 72	
H. R. Barker Mfg. Co., for couplings and plugs ....	2 54	
E. J. Carroll & Co., for fittings	45	
Derby & Morse, for repairing battery .....	70	
Edson Mfg. Co., for repairing pumps.....	41 31	
Charles E. Gee, for repairing engine .....	18 97	
George E. Hutchins, for washers .....	2 00	
A. P. Knapp, for staples and nuts .....	12 00	
Rice & Company, for wire work .....	10 08	
J. W. Stewart, for pail .....	1 50	
H. H. Wilder & Co., for dip- pers .....	1 26	
	<hr/>	
Amounts carried forward .....	\$ 1,498 67	\$ 878 43

Amounts brought forward . . . . .	\$ 1,498 67	\$ 878 43
To Welch Bros., for pipe, fittings, etc . . . . .	123 32	
Brian McFadden, for repairing sewer Blossom Street . . . . .	20 00	
Charles E. Adams, for globes, rope, etc . . . . .	33 25	
Adams Hardware & Paint Co., for burners, globes, wicks, etc . . . . .	25 75	
Israel Bent, for hose . . . . .	62 50	
C. B. Coburn & Co., for oil, lanterns, hose, etc . . . . .	269 99	
Crystal Oil Co., for oil . . . . .	19 14	
Daniel Gage, for ice . . . . .	28 82	
George E. Hutchins, for rubber boots . . . . .	11 31	
Knowlton Packing Co., for packing . . . . .	26 47	
E. Lavery, for repairing boots . . . . .	7 70	
Lowell Rubber Co., for coats, hats, pants, etc . . . . .	130 50	
Parthenais Bros., for rubber boots . . . . .	8 00	
Simpson & Rowland for salt . . . . .	4 74	
E. A. & A. T. Smith, for concrete . . . . .	17 25	
Dumas & Co., for blank books . . . . .	8 25	
Thomas H. Lawler, for stationery . . . . .	3 50	
M. G. Wight & Co., for blank books . . . . .	7 00	
Buckland Printing Co., for printing . . . . .	4 00	
Butterfield Printing Co . . . . .	7 50	
Morning Mail Corp . . . . .	14 75	
Union Printing Co . . . . .	10 50	
Moore & Bennett Coal Co., for coal . . . . .	9 46	
Parker Coal and Wood Co . . . . .	23 17	
E. A. Wilson & Co . . . . .	32 66	
T. J. McDonald, for nutrione . . . . .	13 00	
A. H. Cluer, for feed baskets and repairing harness . . . . .	6 50	
Amounts carried forward . . . . .	\$ 2,427 70	\$ 878 43

Amounts brought forward.....	\$ 2,427 70	\$ 878 43
To Donovan Harness Co., for feed baskets.....	80	
F. B. Hill & Co., for repairing carriages .....	5 30	
Sawyer Carriage Co., for re- pairing carriages .....	3 60	
A. W. Baker, for profes- sional services.....	8 00	
American House, for refresh- ments .....	6 00	
Merrimac House, for refresh- ments .....	37 00	
B. & M. R. R., for mileage tickets.....	20 00	
J. H. Sparks, for carriage hire	21 00	
American Express Co., for transportation.....	75	
B. & M. R. R., for transpor- tation .....	31	
	<hr/>	2,530 46
		<hr/>
		\$ 3,408 89
		<hr/>

## SEWER IN WILLARD AND HUMPHREY STREETS.

Balance Undrawn Jan. 1, 1900 . . .	\$ 3,868 75	
Appropriated from General Treas- ury Fund . . . . .	6,000 00	
	<hr/>	\$ 9,868 75
Received from Appropriation for Sewer Maintenance, for brick and cement . . . . .	21 56	
	<hr/>	21 56
		<hr/>
		\$ 9,890 31
		<hr/>

### EXPENDITURES.

Paid for SUNDRIES:

To Sundry persons, for labor . . .	\$ 8,955 44
Appropriation for Engineer- ing . . . . .	51 91
Appropriation for Streets, sundries . . . . .	104 00
Appropriation for Water Works . . . . .	1 95
C. B. Coburn & Co., for oil . .	19 47
Staples Bros., for pipe . . . . .	55 37
Charles E. Gee, for material and labor . . . . .	12 35
George H. Sampson, for plates	54 72
E. A. Wilson & Co., for brick and cement . . . . .	305 07
	<hr/>
Amount carried forward . . . . .	\$ 9,560 28



Amount brought forward .....	\$ 9,560 28	
To D. W. Horne & Son, for coal.	7 11	
Moore & Bennett Coal Co., for coal .....	204 07	
Parker Coal and Wood Co., for coal .....	62 78	
Daniel T. Sullivan, for coal ..	46 07	
J. F. Mulcahy, for profes- sional services .....	10 00	
	<hr/>	\$ 9,890 31

## STREETS, SALARIES AND LABOR.

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Annual Appropriation . . . . .	\$ 83,200 00	
Additional Appropriation . . . . .	9,000 00	
	—	\$ 92,200 00
Received from sundry depart- ments, for labor . . . . .	\$ 4,023 48	
	—	4,023 48
		\$ 96,223 48

### EXPENDITURES.

Paid Cleveland J. Cheney, Sup- erintendent, salary . . . . .	\$ 1,903 22	
Sundry persons, for labor . . . . .	90,301 77	
Appropriation for Watering Streets, for labor . . . . .	112 00	
	—	\$ 92,316 99
Balance to General Treasury Fund . . . . .		3,906 49
		\$ 96,223 48

## STREETS, FUEL, HAY, GRAIN, ETC.

Annual Appropriation .....	\$10,350 00	
	<hr/>	\$ 10,350 00
Received from Sundry Departments, for fuel, hay, grain, etc.....	\$ 522 00	
	<hr/>	522 00
		<hr/> <hr/>
		\$ 10,872 00

### EXPENDITURES.

Paid for FUEL, HAY, GRAIN,  
Etc.:

To D. W. Horne & Son.....	\$ 820 95
Moore & Bennett Coal Co ...	136 84
E. A. Wilson & Co.....	546 23
J. G. Gordon, for weighing coal.....	2 50
Appropriation for Streets, labor .....	70 00
Ame & Co.....	45 00
D. A. Blake .....	427 41
Joseph Bowers .....	36 90
J. B. Cover & Co.....	469 75
Philip H. Connell.....	209 25
Coffey Bros .....	477 61
Fred A. Fox .....	446 47
G. M. Foster .....	610 61
C. H. Hanson & Co .....	1,960 41
	<hr/>
Amount carried forward.....	\$ 6,259 93

Amount brought forward .....	\$ 6,259 93	
To Wm. E. Livingston .....	405 19	
T. J. McDonald .....	824 84	
H. E. Noyes & Son .....	352 53	
J. B. Sabre .....	797 21	
Vigeant Dumas & Co .....	1,613 00	
O. D. Wilder .....	583 66	
	<hr/>	\$ 10,836 36
Balance to General Treasury Fund .....		35 64
		<hr/>
		\$ 10,872 00
		<hr/> <hr/>

## STREETS, LUMBER, HARDWARE, BRICK, ETC.

Annual Appropriation .....	\$12,500 00	
Additional Appropriation.....	136 08	
	<hr/>	\$ 12,636 08
Received from Appropriation for Sewers, Maintenance, for material .....	\$ 1 10	
	<hr/>	1 10
		<hr/>
		<u>\$ 12,637 18</u>

### EXPENDITURES.

Paid for LUMBER, HARD-  
WARE, BRICK, etc:

To Otis Allen & Son .....	\$ 2 50
Burnham & Davis .....	84 85
Frederick Conant .....	153 92
Davis & Sargent.....	25 12
Daniel Gage .....	6 70
Howe Lumber Co.....	135 01
Charles E. Howe & Co .....	553 35
C. M. Holmes .....	112 00
Pratt & Forrest .....	3,217 28
Amasa Pratt & Co.....	367 35
Wm. H. Wiggin .....	109 71
Adams Hardware and Paint Co .....	133 05
Charles E. Adams .....	35 61
	<hr/>
Amount carried forward .....	\$ 4,936 45

Amount brought forward ..... \$ 4,936 45

To H. R. Barker Mfg. Co .....	1 25
Bartlett & Dow .....	691 33
W. T. S. Bartlett .....	8 04
Boutwell Bros .....	74 74
Buffalo-Pitts Co .....	2,864 00
C. B. Coburn & Co .....	5 44
Derby & Morse .....	72
Eagle Foundry Co .....	31 59
E. P. Flanders & Co .....	61 50
Charles E. Gee .....	8 45
Good Roads Machinery Co..	2,547 30
George W. Hunt & Co .....	44 40
Perrin, Seamans & Co .....	6 80
H. B. Shattuck & Son .....	75 30
Thompson Hardware Co....	66 16
H. Thompson .....	24 00
H. H. Wilder & Co .....	4 00
Mrs. M. E. Bean .....	10 20
Appropriation for Sewer Maintenance .....	4 39
C. Dodge .....	99 20
Wm. E. Livingston .....	9 54
H. E. Noyes & Son .....	249 00
E. A. and A. T. Smith .....	617 68
Wm. H. Shedd .....	134 10
James Walsh .....	52 80
E. A. Wilson & Co .....	7 00
B. & M. R. R. ....	1 80

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\$12,637 18

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## STREETS, LAND DAMAGES.

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Annual Appropriation .....	\$ 1,500 00	
Additional Appropriation .....	1,966 00	
	<hr/>	\$ 3,466 00
		<hr/>

### EXPENDITURES.

#### Paid for LAND DAMAGES:

To G. M. Kendall, et al. ....	\$ 125 00	
George W. McIntire .....	225 00	
Martin and Edward J. Robbins	1,956 00	
Eliza O'Brien .....	500 00	
George Small .....	660 00	
	<hr/>	\$ 3,466 00
		<hr/>

**STREET DEPARTMENT, ENGINEERING.**

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Annual Appropriation .....	\$ 3,300 00	
Additional Appropriation .....	495 14	
	<hr/>	\$ 3,795 14
		<hr/> <hr/>

**EXPENDITURES.**

Paid Appropriation for Engi- neering .....	\$ 3,795 14	
	<hr/>	\$ 3,795 14
		<hr/> <hr/>

## STREET DEPARTMENT, HORSES, CARRIAGES, ETC.

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Annual Appropriation.....	\$ 4,000 00	
Additional Appropriation.....	40 23	
		\$ 4,040 23
Received from sundry departments.....	\$ 1,704 14	
		1,704 14
		\$ 5,744 37

### EXPENDITURES.

Paid for HORSES, CARRIAGES, etc:

To Appropriation for Streets, labor .....	\$ 1,379 38	
George F. Allen .....	42 10	
A. L. Butman .....	43 79	
A. H. Cluer .....	99 25	
H. F. Ebert.....	4 70	
Ebert Harness Co .....	16 76	
C. H. Hanson & Co.....	7 98	
L. S. Kimball .....	11 25	
Abbott Downing Co.....	44 50	
Charles E. Adams .....	7 76	
Adams Hardware and Paint Co .....	2 45	
Boutwell Bros.....	575 71	
E. P. Bryant .....	4 00	
F. B. Hill & Co .....	150 45	
Amount carried forward .....	\$ 2,390 08	

Amount brought forward .....	\$ 2,390 08	
To Noyes & Furbush .....	4 00	
Sawyer Carriage Co .....	25	
Charles Shorits .....	7 00	
H. B. Shattuck & Son .....	7 88	
Thompson Hardware Co ....	5 76	
C. B. Coburn & Co .....	19 10	
Johnson & Garvey .....	108 00	
T. J. McDonald .....	13 00	
Smith & Goold .....	6 30	
Charles B. Banks .....	5 00	
A. W. Baker .....	20 00	
U. S. Richards .....	3 00	
W. A. Sherman .....	3 00	
Jesse A. Viles .....	2 00	
	<hr/>	\$ 2,594 37
Transferred to General Treasury Fund .....		3,150 00
		<hr/>
		<u>\$ 5,744 37</u>

## STREET DEPARTMENT, TRAP ROCK.

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Annual Appropriation .....	\$ 4,000 00	
	<hr/>	\$ 4,000 00
		<hr/>

### EXPENDITURES.

Paid Massachusetts Broken Stone		
Co. ....	\$ 1,962 81	
B. & M. R. R. ....	2 00	
N. Y. N. H. & H. R. R. Co. .	63 09	
	<hr/>	\$ 2,027 90
Balance to General Treasury		
Fund .....		1,972 10
		<hr/>
		\$ 4,000 00
		<hr/>

STREET DEPARTMENT, EDGESTONES.

Annual Appropriation .....	\$ 12,000 00	
	<u>                    </u>	\$ 12,000 00
		<u>                    </u>

EXPENDITURES.

Paid F. A. Malorey .....	\$ 3,380 65	
	<u>                    </u>	\$ 3,380 65
Transferred to General Treas- ury Fund .....		8,619 35
		<u>                    </u>
		\$ 12,000 00
		<u>                    </u>



## STREET DEPARTMENT, SIDEWALKS.

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Appropriated .....	\$ 4,929 72	
	<hr/>	\$ 4,929 72
Received from Appropriation for Location of Water Tower, for stone .....	\$ 10 00	
	<hr/>	10 00
		<hr/>
		\$ 4,939 72
		<hr/>

### EXPENDITURES.

Paid Sundry persons, for labor ..	\$ 502 38	
Eastern Paving Brick Co., for brick .....	224 00	
F. A. Malorey, for edgestone and flagging .....	580 03	
E. A. & A. T. Smith, for concrete .....	3,633 31	
	<hr/>	\$ 4,939 72
		<hr/>

## STREET DEPARTMENT, PAINTING AIKEN STREET BRIDGE.

Annual Appropriation .....	\$ 2,000 00	
Additional Appropriation .....	875 00	
	<hr/>	\$ 2,875 00
Received from John Chambers, overdraft .....	9 63	
	<hr/>	9 63
		<hr/>
		\$ 2,884 63
		<hr/>

### EXPENDITURES.

Paid Sundry persons for labor ..	\$ 1,787 70	
Appropriation for Streets, labor .....	41 50	
Appropriation for Engineer- ing .....	392 16	
Davis & Sargent, for lumber	65 54	
W. T. S. Bartlett, for wire and use of jacks .....	114 22	
Thompson Hardware Co., for hardware .....	7 17	
C. B. Coburn & Co., for oil, brushes, etc. ....	48 60	
National Paint Works, for paint .....	334 95	
	<hr/>	\$ 2,791 84
Balance to General Treasury Fund .....		92 79
		<hr/>
		\$ 2,884 63
		<hr/>

## STREET DEPARTMENT, SUNDRIES.

Balance undrawn Jan. 1, 1900.....	\$ 2,672 47	
Annual Appropriation.....	7,000 00	
	<hr/>	\$ 9,672 47
Received from Appropriation for Paving Market Street, for teaming.....	\$ 108 00	
Received from Appropriation for Willard and Humphrey Sts. Sewer, for labor and material	104 00	
Received from Michael Russell, award for damages to prop- erty on Winter Street, re- turned to Treasury.....	100 00	
	<hr/>	312 00
		<hr/>
		\$ 9,984 47
		<hr/>

### EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Sewer Maintenance, for dualin	\$ 39 79
Appropriation for Water Works, for water.....	334 93
Lowell Gas Light Co., for gas	86 20
Lowell Electric Light Corp., for lights .....	224 90
N. E. Tel. & Teleg. Co for service.....	120 62
	<hr/>
Amount carried forward.....	\$ 806 44

Amount brought forward . . . . .	\$ 806 44
To Lowell Index Co., for rent of index . . . . .	2 00
O. A. Libby, for rent of in- dexes . . . . .	6 00
V. G. Barnard, for stamps . .	5 00
Chas. E. Adams, for weights, fasteners, etc . . . . .	1 09
Adams Hardware and Paint Co., for hammer handles . . .	4 80
W. T. S. Bartlett, for pails, dippers, wires, etc. . . . .	8 45
Bartlett & Dow, for brooms, handles, hose, etc. . . . .	48 25
Boutwell Bros., for packing, leather, etc. . . . .	5 50
H. R. Barker Mfg. Co., for fittings and labor . . . . .	7 94
Buffalo Pitts Co., for grate bar and ash pans . . . . .	17 50
Farrell & Conaton, for pipe, fittings, labor, etc. . . . .	260 01
Charles E. Gee, for castings and repairing crusher . . .	177 76
Josiah Gates & Sons, for leather and lacing . . . . .	4 47
Good Roads Machinery Co., for chains, links and parts for roller . . . . .	271 28
Knowles Scale Works, for re- pairing scales . . . . .	38 70
Lowell Steam Boiler Works, for steel and labor . . . . .	108 84
Middlesex Machine Co., for pipe and fittings . . . . .	24 54
W. A. Mack & Co., for spar- row pans . . . . .	11 40
N. E. Broom Co., for repair- ing street sweepers . . . .	190 00
M. O'Flahavan & Co., for heading posts . . . . .	1 60
Rice & Co., for wire work . .	7 38
H. B. Shattuck & Son, for oil can, wedges, bells, etc . .	15 13
Amount carried forward . . . . .	<hr/> \$ 2,024 08

Amount brought forward..... \$ 2,024 08

To J. W. Stewart, for pipe, fittings and labor .....	21 49
Scannell & Wholey, for plugs for road roller .....	1 00
H. Thompson, for rattan brooms .....	48 00
Welch Bros., for pipe, fittings and labor .....	100 65
C. Zimmer, for fitting keys .	80
Charles E. Adams, for oil and turpentine.....	56 36
Burton Oil Co., for oil.....	18 00
A. N. Curtis, for milk.....	2 76
C. B. Coburn & Co., for oil, lead, paint, turpentine, etc	261 36
Crystal Oil Co., for oil .....	64 31
Walter Coburn & Co., for waste .....	39 46
J. B. Cover & Co., for oat meal	3 95
E. P. Flanders & Co., for hose	19 00
Daniel Gage, for ice .....	30 70
F. W. Gregory & Co., for grease .....	11 64
Frank C. Goodale, for lotion.	12 60
C. W. Hudson Oil Co., for oil	6 50
Charles J. Hill, for soap.....	1 50
A. L. Kittredge & Co., for paper, paste, oil, etc...	8 34
S. W. Kimball, for milk .....	4 55
H. W. Leighton, for milk....	8 52
National Oil Co., for oil .....	22 95
George H. Sampson, for for-cite .....	46 00
Caleb L. Smith, for soap and tub .....	2 00
Simpson & Rowland, for soap	3 00
F. A. Tuttle, for powder....	278 69
Thompson Hardware Co., for oil and exploders .....	29 39
H. Thompson, for refilling brooms .....	99 70
George E. Hutchins, for rubber boots .....	3 63

Amount carried forward..... \$ 3,230 93

Amount brought forward .....	\$ 3,230 93
To E. Lavery, for repairing rubber boots .....	90
American House, for refreshments.....	10 00
W. H. Boody, for refreshments.....	19 00
Merrimac House, for refreshments.....	31 40
Auburn Brush and Mop Co., for brushes .....	3 50
L. W. Hawkes & Co., for hair .....	4 80
Virgil G. Barnard, for stamps .....	10 00
Dumas & Co., for blank books .....	8 25
Thomas H. Lawler, for stationery, and typewriter and stand.....	148 55
J. Merrill & Son, for stationery .....	1 75
G. C. Prince & Son, for stationery .....	4 70
Sampson, Murdock & Co., for directories .....	4 00
Courier-Citizen Co., for printing and advertising.....	7 00
Butterfield Printing Co., for printing .....	58 80
Daily News Co., for advertising .....	1 28
Lowell Sun, for advertising .....	3 00
Morning Mail Corp., for advertising.....	1 50
Union Printing Co., for printing .....	14 50
A. F. Frost's Steam Laundry, for laundering.....	34 68
S. Morris, for personal injuries.....	500 00
B. & M. R. R., for tickets ...	60 25
Susan G. Butters, for abatement of sidewalk assessment .....	5 13
Town of Dracut, for taxes of 1900 .....	35 00
Amount carried forward .....	\$ 4,198 92



Amount brought forward.....	\$ 4,198 92
To W. H. Fuller, for stone .....	171 00
John Marinel, for bound stone .....	35 00
H. W. Tarbell, for stone .....	30 00
Merrimac Paving Co., for re- pairing asphalt on Aiken Street .....	299 60
John E. Cheney, for reports on strength of Pawtucket Bridge .....	93 00
George F. Swain, for report on strength of Pawtucket Bridge .....	75 00
C. H. Hanson & Co., for use of horses .....	11 00
W. A. Moody, for use of horse .....	24 00
P. F. Fall, for cutting hay ..	19 80
B. J. Callahan, for damages, execution of court .....	25 00
Morse Coach Co., for carriage hire .....	24 00
J. H. Sparks, for professional services and carriage hire .....	55 70
Am. Ex. Co., for transporta- tion .....	11 95
B. & M. R. R., for transpor- tation .....	15 69
N. Y. N. H. & H. R. R. Co., for transportation .....	1 53

Paid SUNDRY PERSONS  
FOR TEAMING:

To A. H. Blake .....	124 00
E. Bibeault .....	81 50
Philip P. Conners & Co .....	64 00
Patrick Cogger .....	34 00
Charles H. Clapp & Co .....	96 00
E. Duren .....	34 00
George F. Fall .....	28 00
C. H. Hansom & Co .....	107 00
Alfred LeBlanc .....	8 00
Joseph Mullin .....	135 00
H. E. Noyes & Son .....	6 00

Amount carried forward.....	\$ 5,808 69
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Amount brought forward .....	\$ 5,808 69	
To C. P. Salls .....	150 00	
G. E. Stanley .....	184 00	
J. D. Sabre .....	64 00	
Benj. Vincent .....	60 00	
Redmond Welch .....	8 00	
	<hr/>	6,274 69

Paid on ACCOUNT OF EX-  
TENSION OF WINTER  
STREET:

To Michael Russell, for land damages on execution...	\$ 664 23	
Samuel E. Snow, for mason work .....	70 76	
Charles H. Burt, for services and attendance at court.	50 00	
John Buckley, for services and attendance at court.	9 00	
Sheppard & Fuller, for ser- vices and attendance at court .....	25 00	
Wm. H. Wiggin, for services of Wm. H. and Burton H. Wiggin, and attendance at court .....	195 00	
	<hr/>	1,013 99
		<hr/>
		\$ 7,288 68
Transferred to General Treasury Fund .....		2,695 79
		<hr/>
		\$ 9,984 47
		<hr/>

# PAVING MAMMOTH ROAD, SUFFOLK STREET, AND GRADING AND PAVING BRIDGE STREET.

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Balance undrawn, Jan. 1, 1900 . . .	\$ 4,494 35	
	<hr/>	\$ 4,494 35
		<hr/>

## EXPENDITURES.

### Paid for SUNDRIES:

To Sundry persons, for labor . . .	\$ 2,986 14	
Appropriation for Engineer-		
ing . . . . .	6 12	
Appropriation for Streets,		
labor . . . . .	212 01	
Wm. E. Livingston, for ce-		
ment . . . . .	258 78	
E. A. and A. T. Smith for		
concrete . . . . .	734 72	
C. A. Gilman, for teaming . . .	76 00	
Joseph Mullin, for teaming . .	116 00	
	<hr/>	\$ 4,389 77
Balance to General Treasury		
Fund . . . . .		104 58
		<hr/>
		\$ 4,494 35
		<hr/>

## PAVING JACKSON STREET.

Appropriated from General Treasury Fund .....	\$ 3,000 00	
	<u>          </u>	<u>\$ 3,000 00</u>

### EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Engineer- ing .....	\$ 42 86	
Sundry persons, for labor ...	740 73	
F. A. Malorey, for paving blocks .....	1,725 31	
G. E. Stanley, for traming ..	50 00	
	<u>          </u>	\$ 2,558 90
Balance to General Treasury Fund .....		441 10
		<u>          </u>
		<u>\$ 3,000 00</u>

## PAVING MARKET STREET.

Appropriation .....	\$12,000 00	
	<hr/>	\$12,000 00
		<hr/>

### EXPENDITURES.

#### Paid for SUNDRIES:

To Sundry persons, for labor...	\$ 1,365 47
Appropriation for Engineering .....	337 63
Appropriation for Streets, Sundries, for teaming...	108 00
Merrimack Paving Co., for 3,379.37 sq. yds. asphalt paving @ \$2.80 per sq. yd	9,462 24
Wm. E. Livingston, for cement .....	1 14
Courier-Citizen Co., for advertising .....	1 25
Daily News Co., for advertising .....	11 60
Lowell Sun, for advertising .	1 87
Morning Mail Corp., for advertising .....	4 00

#### Paid SUNDRY PERSONS FOR TEAMING:

To A. Choquette .....	96 00
E. Duren .....	54 00
Amount carried forward .....	<hr/> \$ 11,443 20

Amount brought forward . . . . .	\$ 11,443 20	
To Frank Fay . . . . .	24 00	
C. A. Gilman . . . . .	36 00	
Alfred LeBlanc . . . . .	52 00	
G. E. Stanley . . . . .	300 00	
Redmond Welch . . . . .	34 00	
	<hr/>	\$ 11,889 20
Balance to General Treasury Fund . . . . .		110 80
		<hr/>
		\$ 12,000 00
		<hr/> <hr/>



## EXTENSION OF AIKEN STREET.

Balance undrawn Jan. 1, 1900 . . . .	\$ 4,596 98	
	<hr/>	\$ 4,596 98
Received from John Callahan, overdraft . . . . .	\$ 1 37	
	<hr/>	1 37
		<hr/>
		\$ 4,598 35
		<hr/>

### EXPENDITURES.

Paid for SUNDRIES:

To Sundry persons for labor . . .	\$ 3,602 86	
Appropriation for Engineer- ing . . . . .	65 20	
Appropriation for Streets, horses . . . . .	38 00	
Appropriation for Streets, salaries and labor . . . . .	40 00	
Berard & Murphy for mason work . . . . .	270 00	
Wm. E. Livingston, for lime and cement . . . . .	42 26	
J. W. Stewart, for pipe, fit- tings and labor . . . . .	42 36	
E. A. & A. T. Smith, for con- crete . . . . .	243 88	
P. O'Hearn, on execution of court . . . . .	85 14	
	<hr/>	\$ 4,429 70
Balance to General Treasury Fund . . . . .		168 65
		<hr/>
		\$ 4,598 35
		<hr/>

## EXTENSION OF LUNDBERG STREET.

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Balance undrawn Jan. 1, 1900...	\$ 2,022 80	
		<u>\$ 2,022 80</u>

### EXPENDITURES.

#### Paid for SUNDRIES:

To Sundry persons, for labor...	\$ 804 97
Appropriation for Engineering .....	11 25
Appropriation for Streets, Labor .....	450 35
Appropriation for Streets, Horses .....	298 00
R. Wilson Dix, for gravel...	71 80
E. P. Flanders & Co., for oil, turpentine and putty....	4 63
Howe Lumber Co, for lumber	8 40
H. B. Shattuck & Son, for hardware .....	15 40

#### Paid SUNDRY PERSONS FOR TEAMING:

To A. Choquette .....	28 00	
Charles H. Clapp .....	16 00	
George F. Fall .....	94 00	
C. A. Gilman .....	20 00	
C. H. Hanson & Co.....	64 00	
A. LeBlanc .....	16 00	
Joseph Mullin .....	24 00	
G. E. Stanley .....	96 00	
		<u>\$ 2,022 80</u>

## SOLDIERS' RELIEF.

Annual Appropriation.....	\$ 8,500 00	
Additional Appropriation .....	750 00	
	<hr/>	\$ 9,250 00
Received from Sundry persons, cash returned to Treas- ury .....	\$ 46 00	
	<hr/>	46 00
		<hr/>
		<u>\$ 9,296 00</u>

### EXPENDITURES.

Paid Sundry persons, cash al- lowances and for care of sundry persons .....	\$ 4,655 00	
	<hr/>	\$ 4,655 00
Paid for PROVISIONS, FUEL, etc., on orders:		
To Appropriation for Paupers, Out Door Relief .....	\$ 103 20	
· C. C. Bachelder.....	45 00	
Banner Market.....	207 47	
J. S. Brooks .....	70 00	
Breen Bros.....	382 22	
Fred N. Barney & Co.....	148 00	
Barney & Co .....	248 22	
Jno. G. Burns .....	59 00	
Buttrick & Co .....	39 00	
John Carr & Sons.....	12 00	
	<hr/>	
Amounts carried forward .....	\$ 1,314 11	\$ 4,655 00

Amounts brought forward .....	\$ 1,314 11	\$ 4,655 00
To Ira D. Cheney .....	6 00	
Ellingwood & Co .....	3 00	
Harry Gray .....	15 00	
James Gibson .....	20 00	
W. T. Griffin .....	52 50	
James A. Hunter .....	19 96	
T. Howell .....	8 25	
A. Kiernan .....	108 67	
James F. Kelty .....	36 00	
Keefe Bros. ....	48 00	
G. Leighton .....	43 00	
George Lynch .....	88 56	
Lowell Gas Light Co. ....	11 25	
A. LeBlanc .....	240 00	
H. W. Locke .....	3 00	
Leonard & McGann .....	6 00	
Richard J. McCluskey .....	52 00	
Mass. Wharf Coal Co. ....	10 00	
McDonald Bros. ....	77 00	
Merrimack Clothing Co. ....	12 00	
N. E. Market .....	189 56	
O'Sullivan Bros. ....	12 90	
O'Donnell & Gilbride .....	4 25	
Public Market & Packing Co. ....	20 68	
M. N. Peabody .....	12 00	
G. N. Perrault .....	20 25	
M. M. Purcell .....	55 00	
Parker Coal and Wood Co. ....	494 18	
Ranlett & Ranlett .....	72 00	
C. E. Smart & Co. ....	4 00	
P. P. Stiles & Co .....	388 81	
F. R. Strout .....	203 25	
Stanley & Co .....	53 50	
Daniel S. Sullivan .....	2 00	
Walker & Thompson .....	144 00	
		3,850 68

## Paid for SUNDRIES:

To City of Cambridge, for aid to M. Sheridan and family .	\$ 54 00	
Lowell Hospital Association, for aid to Susan Gannon .	23 68	
Amounts carried forward .....	\$ 77 68	\$ 8,505 68

Amounts brought forward .....	\$ 77 68	\$ 8,505 68
To P. Brunelle, for professional services.....	20 00	
Wm. A. Johnson, for professional services.....	33 00	
J. E. Leary, for professional services.....	47 00	
J. L. Plunkett, for professional services.....	5 00	
J. W. Brooks, for interment.	35 00	
J. B. Currier, for interments	105 00	
J. H. McDermott, for interment .....	35 00	
Charles H. Molloy, for interments .....	70 00	
James F. O'Donnell, for interments.....	140 00	
J. F. Rogers, for interment.	30 00	
John A. Weinbeck, for interment.....	35 00	
C. M. Young & Co., for interments .....	140 00	
	<hr/>	772 68
		<hr/>
		\$ 9,278 36
Balance to General Treasury Fund .....		17 64
		<hr/>
		\$ 9,296 00
		<hr/>

## SOLDIERS AND SAILORS MEMORIAL TABLETS.

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Annual Appropriation .....	\$	800 00	
Additional Appropriation .....		300 00	
		<hr/>	\$ 1,100 00

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### EXPENDITURES.

#### Paid for SUNDRIES:

To Arthur F. Salmon, clerk ....	\$	807 00	
Arthur F. Salmon, for sundry expenses .....		123 80	
Virgil G. Barnard, for stamps		16 00	
Courier-Citizen Co., for print- ing .....		30 00	
B. & M. R. R., for ticket ....		40 50	
		<hr/>	\$ 1,017 30
Balance undrawn Dec. 31, 1900..			82 70
			<hr/>
			\$ 1,100 00

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## STATE AID.

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Annual Appropriation .....	\$ 15,000 00	
	<hr/>	\$ 15,000 00
Received from sundry persons, cash returned to Treasury..	\$ 32 00	
	<hr/>	32 00
		<hr/>
		\$ 15,032 00
		<hr/>

## EXPENDITURES.

Paid Sundry persons, state aid of 1900 .....	\$ 14,951 00	
	<hr/>	\$ 14,951 00
Balance to General Treasury Fund .....		81 00
		<hr/>
		\$ 15,032 00
		<hr/>

## STATE AID, OFFICE EXPENSES.

Annual Appropriation .....	\$ 2,000 00	
	<u>                    </u>	<u>\$ 2,000 00</u>

### EXPENDITURES.

#### Paid SALARIES:

To Hubert M. Potter, Superin-		
tendent .....	\$ 1,200 00	
Mary C. Brennan, Assistant		
Superintendent .....	600 00	
	<u>                    </u>	\$ 1,800 00

#### Paid for SUNDRIES:

To Hubert M. Potter, for sun-		
dry expenses .....	\$ 71 10	
V. G. Barnard, for stamps ..	8 00	
N. E. Tel. & Teleg. Co., for		
service .....	46 36	
O. A. Libby, for rent of tele-		
phone index .....	2 00	
Wyckoff, Seamans & Benedict,		
for typewriter supplies.	2 18	
Harvey C. Derby, for stamp.	2 00	
Sampson, Murdock & Co., for		
directory .....	2 00	
Mrs. N. L. Wheeler, for shears	1 00	
Courier-Citizen Co., for print-		
ing .....	9 50	
Thomas H. Lawler, for sta-		
tionery .....	2 50	
	<u>                    </u>	
Amounts carried forward .....	\$ 146 64	\$ 1,800 00

Amounts brought forward.....	\$ 146 64	\$ 1,800 00
To G. C. Prince & Son, for stationery .....	3 35	
Tilton & Co., for stationery .	8 50	
Thompson & Hill, for printing .....	2 75	
Union Printing Co., for printing .....	21 25	
J. H. Sparks, for carriage hire .... ..	6 00	
	<hr/>	\$ 188 49
		<hr/>
		\$ 1,988 49
Balance to General Treasury Fund.....		11 51
		<hr/>
		<u>\$ 2,000 00</u>

## SUPPLY DEPARTMENT, PUR- CHASING AGENT.

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Annual Appropriation.....	\$ 2,400 00	<u>\$ 2,400 00</u>
Paid Virgil G. Barnard, purchas- ing agent .....	\$ 2,400 00	<u>\$ 2,400 00</u>

SUPPLY DEPARTMENT, TYPEWRITER.

Annual Appropriation .....	\$ 650 00	
Additional Appropriation .....	9 00	
	<u>          </u>	\$ 659 00
		<u>          </u>
Paid Eleanor M. Churchill, type- writer .....	\$ 659 00	
	<u>          </u>	\$ 659 00
		<u>          </u>

## SUPPLY DEPARTMENT, INSPECTOR.

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Annual Appropriation . . . . .	\$	718 00	
Additional Appropriation . . . . .		15 17	
		<u>          </u>	\$ 733 17
Paid Abram Fenton, inspector..	\$	733 17	
		<u>          </u>	<u>\$ 733 17</u>



**SUPPLY DEPARTMENT, CLERK.**

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Annual Appropriation . . . . .	\$ 626 00	
	<u>          </u>	\$ 626 00
		<u>          </u>
Paid Samuel A. McPhetres, clerk	\$ 626 00	
	<u>          </u>	\$ 626 00

## SUPPLY DEPARTMENT, SUNDRIES.

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Annual Appropriation .....	\$	506 00	
Additional Appropriation .....		350 00	
		_____	\$ 856 00

### EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Streets, hay, grain, etc.....	\$	60 00	
Appropriation for Streets, horses, etc .....		125 95	
N. E. Tel. & Teleg. Co., for service.....		81 16	
V. G. Barnard, for stamps and sundry expenses .....		263 50	
W. U. Teleg. Co., for tele- gram .....		45	
Automatic Time Stamp and Register Co., for register ribbon .....		1 00	
Buckland Printing Co., for printing .....		7 25	
Butterfield Printing Co., for printing .....		7 50	
Courier-Citizen Co., for print- ing .....		30 00	
Morning Mail Corp., for print- ing .....		5 00	
Lowell Rubber Co., for stamp and pads .....		2 75	
Amount carried forward.....	\$	584 56	

Amount brought forward . . . . .	\$ 584 56	
To Library Bureau, for index cards and guides . . . . .	47 50	
Thomas H. Lawler, for sta- tionery . . . . .	3 25	
A. E. Martel & Co., for tripli- cate and duplicate books . . . . .	50 50	
G. C. Prince & Son, for sta- tionery subscriptions . . . . .	26 35	
Sampson, Murdock & Co., for directory . . . . .	2 00	
Tilton & Co., for stationery . . . . .	1 50	
Typewriter Inspection Co., for repairing typewriter . . . . .	1 25	
Union Printing Co., for print- ing . . . . .	27 25	
Antiseptic Mouthpiece Co., for mouthpieces for tele- phones . . . . .	2 50	
B. & M. R. R., for tickets . . . . .	60 75	
Thompson Hardware Co., for measure . . . . .	50	
George H. Gage, for repairing clock . . . . .	3 00	
O. A. Richardson's Sons, for keys and repairing lock . . . . .	1 00	
Ebert Harness Co., for re- pairing harness . . . . .	3 75	
Sawyer Carriage Co., for re- pairing wagon . . . . .	28 09	
A. G. Pollard & Co., for horse blanket . . . . .	2 50	
C. H. Hansom & Co., for use of horse . . . . .	4 50	
Am. Ex. Co., for transporta- tion . . . . .	1 15	
Man. & Con. Ex. Co., for transportation . . . . .	15	
	<hr/>	\$ 852 05
Balance to General Treasury Fund . . . . .		3 95
		<hr/>
		\$ 856 00

## WATERING STREETS, LABOR.

Annual Appropriation .....	\$ 5,500 00	
Additional Appropriation .....	600 00	
	<hr/>	\$ 6,100 00
Received from Appropriation for Streets, Labor .....	\$ 112 00	
	<hr/>	112 00
		<hr/>
		\$ 6,212 00
		<hr/>
Paid Sundry persons for labor ...	\$ 6,104 65	
	<hr/>	\$ 6,104 65
Balance to General Treasury Fund .....		107 35
		<hr/>
		\$ 6,212 00
		<hr/>

## WATERING STREETS, SUNDRIES.

Annual Appropriation .....	\$ 4,000 00	
Additional Appropriation .....	5,500 00	
	<hr/>	\$ 9,500 00

### EXPENDITURES.

#### Paid for SUNDRIES:

To Appropriation for Engineer- ing .....	\$ 214 75
Appropriation for Streets, Horses, etc .....	386 45
Appropriation, for Streets, Labor .....	74 85
Appropriation for Water Works .....	769 60
Lowell Electric Light Corp., for lights .....	93 32
Boutwell Bros., for nuts and bolts .....	130 96
H. R. Barker Mfg. Co., for fittings .....	1 00
Daniel Cushing & Co., for gal- vanized iron .....	4 20
O. K. Dexter, for blacksmith- ing .....	3 15
J. L. & H. K. Potter, for parts for carts .....	69 01
Welch Bros., for fittings and labor .....	196 03
Buckland Printing Co., for printing .....	10 75
	<hr/>
Amount carried forward .....	\$ 1,954 07

Amount brought forward ..... \$ 1,954 07

To G. C. Prince & Son, for type- writer ribbon .....	1 25
Dumas & Co., for blank books .....	8 75
Est. Patrick Keyes, for abate- ment of assessment .....	3 60
Margaret Keyes, for abate- ment of assessment .....	4 62
G. M. Foster, for grain and hay .....	1,708 82
T. J. McDonald, for shorts ..	18 25
S. W. Shaw, for hay .....	5 48
J. B. Sabre, for hay .....	200 63
Vigeant, Dumas & Co., for oats .....	401 93
O. D. Wilder, for grain .....	247 15
John J. Farrell, for horse powder .....	4 50
Smith & Goold, for liniment ..	6 30
A. W. Baker, for profession- al services .....	32 00
Charles Banks, for profes- sional services .....	5 00
F. B. Hill & Co., for repair- ing wagon .....	3 50
Charles H. Clapp & Co., for use of horses .....	21 00
C. H. Hanson & Co., for use of horses .....	20 00
J. J. O'Connell, for use of horse	32 50
Am. Ex. Co., for transporta- tion .....	15

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\$ 4,679 50

Transferred to General Treasury  
Fund .....

4,820 50

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\$ 9,500 00



## WATER WORKS DEPARTMENT.

Balance undrawn Jan. 1, 1900 . . . .	\$ 30,616 99	
	<u>                    </u>	\$ 30,616 99
Received from Sundry persons, for water rates, service pipe, etc . . . . .	\$210,149 86	
	<u>                    </u>	\$210,149 86
		<u>                    </u>
		\$240,766 85

### EXPENDITURES.

#### Paid for SALARIES:

To Frank L. Weaver, president	\$ 400 00	
Robert J. Thomas, superin-		
tendent . . . . .	1,800 00	
	<u>                    </u>	2,200 00
Paid Sundry persons, for labor	\$ 56,022 55	
	<u>                    </u>	56,022 55
Paid to Appropriation for City Debt, for instalments on notes . . . . .	\$ 30,100 00	
	<u>                    </u>	30,100 00

#### Paid INTEREST:

To Commonwealth of Massachu-		
setts . . . . .	\$ 2,200 00	
Lowell Institution for Savings	3,747 00	
Sundry persons . . . . .	43,360 00	
	<u>                    </u>	49,307 00
		<u>                    </u>
Amount carried forward . . . . .		\$ 137,629 55

Amount brought forward ..... \$137,629 55

Paid Sundry persons, refunds  
on water rates ..... \$ 1,771 81

1,771 81

Paid for FUEL :

To D. W. Horne & Son ..... \$22,579 25  
Wm. E. Livingston ..... 3,345 76  
Moore & Bennett Coal Co ... 739 87  
N. E. Gas and Coke Co. .... 204 04  
E. A. Wilson & Co ..... 6,849 86

33,718 78

Paid for PIPE, METERS,  
HYDRANTS, Etc.:

To H. R. Barker Mfg. Co. .... \$ 1,908 87  
Barbour Stockwell Co. .... 3 75  
Builders Iron Foundry ..... 213 40  
Coffin Valve Co. .... 87 00  
Cutter, Wood & Stevens Co., 44 23  
Chapman Valve Manufactur-  
ing Co ..... 6 48  
A. W. Chesterton & Co ..... 1 20  
Carpenter & Jefferson ..... 14 94  
E. J. Carroll & Co ..... 8 20  
Deane Steam Pump Co. .... 42 30  
T. Draper & Sons ..... 25 00  
F. J. Dibble ..... 100 00  
W. and B. Douglass ..... 26 25  
Eagle Foundry Co ..... 26 64  
Edson Manufacturing Co ... 24 43  
Fairbanks Co ..... 16 20  
Farrell & Conaton ..... 97 37  
Field Tool Co ..... 3 00  
Gallison's Brass Foundry ... 184 24  
Jones Gage Co ..... 10 00  
George E. Hutchins ..... 126 00  
Hersey Manufacturing Co .. 713 07  
Hancock Inspirator Co. .... 10 50  
International Power Co ..... 192 67  
Arthur P. Knapp ..... 29 00  
Lowell Rubber Co ..... 27 60  
Lowell Steam Boiler Works . 52 51

Amounts carried forward ..... \$ 3,994 85 \$173,120 14

Amounts brought forward . . . . . \$ 3,994 85 \$ 173,120 14

To Ludlow Valve Manufacturing

Co . . . . .	973 94	
Lead Lined Iron Pipe Co . . .	2,141 72	
Middlesex Machine Co . . . .	635 76	
Thomas Mather . . . . .	33 14	
National Meter Co . . . . .	3,323 30	
Neptune Meter Co . . . . .	276 75	
A. F. Nichols . . . . .	52 86	
Perrin, Seamans & Co . . . . .	816 26	
Pevey Bros . . . . .	43 64	
Props. Locks & Canals . . . .	2 97	
Rensselaer Manufacturing Co . .	33 00	
Scott & O'Day . . . . .	10 35	
Sumner & Goodwin Co . . . . .	218 65	
Scannell & Wholey . . . . .	6 70	
A. P. Smith Mfg. Co . . . . .	567 60	
Staples Bros . . . . .	691 50	
Thompson Meter Co . . . . .	506 66	
The Kennedy Valve Co . . . . .	10 00	
Union Water Meter Co . . . . .	222 05	
Thomas Watkins . . . . .	11 90	
Harry R. Worthington . . . . .	66 87	
D. W. Wilson & Co . . . . .	28 95	
R. D. Wood & Co . . . . .	1,652 67	
H. H. Wilder & Co . . . . .	265 06	

16,587 15

Paid for SUNDRIES:

To Appropriation for Engineer-

ing . . . . .	\$ 1,291 87	
Appropriation for Public Buildings, labor . . . . .	87 24	
Appropriation for Public Buildings, sundries . . . .	6 86	
Appropriation for School Houses, sundries . . . . .	23 06	
Town of Chelmsford, for taxes . . . . .	105 30	
Lowell Gas Light Co., for gas . .	169 60	
Lowell Electric Light Corp., for lights . . . . .	511 00	
N. E. Tel. & Teleg. Co, for service . . . . .	378 76	

Amounts carried forward . . . . . \$ 2,573 69 \$ 189,707 29

Amounts brought forward . . . . .	\$ 2,573 69	\$ 189,707 29
To Lowell Index Co., for rent of index . . . . .	2 00	
Burnham & Davis, for lum- ber . . . . .	110 65	
W. E. Hatch, for sash, cas- ings, etc . . . . .	7 36	
Pratt & Forrest, for lumber	112 25	
Wm. H. Wiggin, for lumber.	107 22	
Charles E. Adams, for hard- ware, etc . . . . .	70 97	
Adams Hardware and Paint Co., for hardware, etc . . .	11 48	
American Bolt Co., for bolts, cranks, etc . . . . .	12 08	
Bartlett & Dow, for hard- ware, etc . . . . .	68 81	
W. T. S. Bartlett, for hard ware, etc . . . . .	59 22	
Boutwell Bros., for iron and steel . . . . .	25 65	
E. P. Flanders & Co., for hardware, etc . . . . .	2 79	
Henry C. Girard, for hard- ware, etc . . . . .	5 00	
H. B. Shattuck & Son, for hardware, etc . . . . .	370 94	
Thompson Hardware Co., for hardware, etc . . . . .	137 34	
J. J. Adams, for setting and filing saw . . . . .	50	
W. W. Carey, for pulleys, shafting and labor . . . . .	63 64	
F. W. Corrigan & Co., for mauls . . . . .	12 00	
John Callaghan, for iron, solder, labor, etc . . . . .	13 45	
Alfred Drake, for wire brushes . . . . .	1 00	
Derby & Morse, for repairing lights and battery . . . . .	3 77	
Eagle Foundry Co., for cast- ings . . . . .	249 77	
Fifield Tool Co., for gears . . . .	3 50	
Amounts carried forward . . . . .	<u>\$ 4,025 08</u>	<u>\$ 189,707 29</u>

Amounts brought forward . . . . .	\$ 4,025 08	\$ 189,707 29
To Josiah Gates & Sons, for belting and leather . . . . .	7 31	
Wm. H. Hope & Co., for bolts . . . . .	3 38	
Joel Knapp & Son, for springs . . . . .	1 25	
Arthur P. Knapp, for repair- ing pot holders, etc . . . . .	6 63	
D. Lovejoy & Son, for spring . . . . .	75	
Lowell Machine Co., for cast- ings, etc . . . . .	24 85	
W. A. Mack & Co., for repair- ing roof . . . . .	22 50	
C. F. Morse, for wire . . . . .	75	
Calvin L. Randall, for vise . . . . .	4 50	
O. A. Richardson's Sons, for springs . . . . .	75	
Union Brass Foundry, for composition . . . . .	60 00	
H. H. Wilder & Co., for labor . . . . .	6 00	
Henry F. Whiting, for lac- ings and leather . . . . .	60 46	
Charles E. Adams, for rope, lead, brushes, oil, etc . . . . .	17 24	
Boston Engineer's Supply Co., for packing . . . . .	52 94	
Borne, Scrymser & Co., for oil . . . . .	77 13	
F. M. Bill & Co., for soap . . . . .	3 00	
C. B. Coburn & Co., for borax, lead, packing, washers, etc . . . . .	248 62	
Walter Coburn & Co., for waste . . . . .	79 01	
Crystal Oil Co., for oil . . . . .	99 96	
Daniel Gage, for ice . . . . .	21 05	
A. W. Harris Oil Co., for oil . . . . .	45 53	
Knowlton Packing Co., for packing . . . . .	125 82	
Mrs. F. A. Kittredge, for kleansall . . . . .	11 38	
Leonard & Ellis, for oil . . . . .	362 18	
G. G. Read, for matches . . . . .	11 46	
Robertson & Co., for chim- neys . . . . .	5 62	
Caleb L. Smith, for soap . . . . .	50	
Amounts carried forward . . . . .	\$ 5,385 65	\$ 189,707 29



Amounts brought forward . . . . .	\$ 5,385 65	\$ 189,707 29
To Talbot Dyewood and Chemical Co., for bottles and corks . . . . .	3 30	
W. A. Wood & Co., for oil . . . . .	64 72	
James Burns, for slate, zinc and labor . . . . .	31 99	
M. F. Conner, for plastering . . . . .	28 00	
P. Conlan, for mason work and material . . . . .	102 05	
Wm. E. Livingston, for cement, charcoal and limé . . . . .	14 43	
E. A. & A. T. Smith, for concrete . . . . .	48 50	
E. G. Twohey, for carpenter work . . . . .	42 23	
E. A. Wilson & Co., for cement . . . . .	42 40	
Whittet & Co., for bulbs and labor . . . . .	102 20	
Buckland Printing Co., for printing . . . . .	20 50	
Butterfield Printing Co., for printing . . . . .	21 00	
Courier-Citizen Co., for printing and advertising . . . . .	40 10	
Daily News Co., for advertising . . . . .	5 85	
O. A. Libby, for printing . . . . .	14 55	
Lowell Sun, for printing and advertising . . . . .	4 75	
Morning Mail Corp., for printing and advertising . . . . .	17 00	
Thompson & Hill, for printing . . . . .	21 50	
Union Printing Co., for printing . . . . .	341 40	
Dumas & Co., for blank books . . . . .	94 40	
Harvey C. Derby, for stamps . . . . .	3 00	
E. Howard Clock Co., for record dials . . . . .	6 00	
Library Bureau, for index cards . . . . .	82 68	
Thomas H. Lawler, for stationery . . . . .	10 70	
Amounts carried forward . . . . .	<u>\$ 6,548 90</u>	<u>\$ 189,707 29</u>



Amounts brought forward.....	\$ 6,548 90	\$ 189,707 29
To Lowell Rubber Type Co., for stamp .....	75	
Power, for subscription ....	1 00	
G. C. Prince & Son, for stationery .....	18 25	
Sampson, Murdock & Co., for directories .....	4 00	
Tilton & Co., for stationery .	5 50	
M. G. Wight & Co., for books	33 40	
Adams & Co., for linoleum ..	4 80	
C. W. Durant, for repairing clocks .....	2 00	
George E. Hutchins, for rubber boots .....	25 68	
H. C. McOsker, for paper hanging, etc.....	5 22	
O'Donnell & Gilbride Co., for castors, stove, lamps, chimneys, etc .....	9 75	
O'Sullivan Bros., for rubber boots and repairing.....	24 45	
Samuel W. Foster, for damage to drain pipe .....	14 10	
Home Guarantee Insurance Co., for assessments ....	193 26	
B. & M. R. R., for tickets ...	80 75	
Virgil G. Barnard, for stamps	14 00	
J. W. Crawford, for expenses of Water Board.....	373 87	
Robert J. Thomas, for expenses of Water Board..	98 00	
Frank L. Weaver, for expenses of Water Board..	8 40	
Page Catering Co., for refreshments .....	21 45	
F. E. Putnam, for refreshments .....	3 00	
Richardson's Hotel, for refreshments .....	38 25	
St. Charles Hotel, for refreshments.....	23 50	
Engineering News Publishing Co., for subscription	5 00	
Amounts carried forward.....	\$ 7,557 28	\$ 189,707 29

Amounts brought forward .....	\$ 7,557 28	\$ 189,707 29
To Engineering Record, for sub- scription .....	5 00	
Fire and Water, for sub- scription .....	3 00	
Power, for subscription ....	1 00	
Charles Harrington, M. D., for analyses of water .....	1,645 00	
Thomas C. Lee & Co., for in- surance .....	150 00	
Fred C. Church, for insurance	306 10	
Henry Miller, for insurance.	420 00	
N. G. Norcross, for insurance	150 00	
Abbott Downing Co., for wagon .....	160 50	
E. P. Bryant, for repairing wagons .....	48 95	
F. B. Hill & Co., for repairing wagons .....	109 50	
Sawyer Carriage Co., for re- pairing wagons .....	111 94	
A. L. Butman, for repairing harnesses .....	20 45	
A. H. Cluer, for harness and repairing .....	79 95	
Donavan Harness Co., for re- pairing harnesses etc ...	36 00	
Ebert Harness Co., for re- pairing harness .....	1 40	
C. H. Hanson & Co., for blankets, soap, straw, harness dressing, etc..	57 19	
Cahill Bros., for shoeing horses .....	42 40	
Owen J. Carney, for shoeing horses .....	20 50	
Cornelius Desmond, Agt., for shoeing horses .....	23 00	
S. A. Shattuck, for shoeing horses .....	87 76	
Ame & Co., for standard food	24 50	
J. B. Cover & Co. for grain and straw .....	28 90	
Amounts carried forward .....	<u>\$ 11,090 32</u>	<u>\$ 189,707 29</u>

Amounts brought forward .....	\$ 11,090 32	\$ 189,707 29
Vigeant, Dumas & Co., for hay, oats .....	568 48	
O. D. Wilder, for grain ....	184 02	
Props. of Locks & Canals, for rent of land .....	290 00	
Props. of Locks & Canals for loam .....	50 00	
John Cross, for care of awn- ings .....	2 00	
John W. Peabody, for ex- change of horses .....	135 00	
J. H. Sparks, for carriage hire .....	84 75	
E. Duren, for teaming .....	40 50	
G. E. Stanley, for teaming ..	41 50	
B. & M. R. R., for transpor- tation .....	343 06	
N. Y. N. H. & H. R. R. Co., for transportation .....	77 18	
American Express Co., for transportation .....	13 95	
B. & L. Des. Ex. Co., for transportation .....	1 30	
Man. & Con. Ex. Co., for transportation .....	15	
N. Y. & B. Des. Ex. Co., for transportation .....	5 30	
	<hr/>	\$ 12,927 51
		<hr/>
Balance undrawn Dec. 31, 1900 ..		\$ 202,634 80
		38,132 05
		<hr/>
		\$ 240,766 85
		<hr/>

## DRIVEN WELLS.

Appropriation.....	\$ 75,000 00	
	<u>                    </u>	<u><u>\$75,000 00</u></u>

### EXPENDITURES.

Paid Sundry persons, for labor	\$ 7,553 56	
	<u>                    </u>	\$ 7,553 56
Paid for LAND:		
To W. T. S. Bartlett, 4,114 sq. ft.	\$ 82 28	
Angie C. Brewer, 14,000sq. ft.	140 00	
George W. Bagley, 11,507 sq.		
ft.....	260 00	
Hannah J. Belle Isle, 15,380		
sq. ft .....	384 50	
Marie Bissonnette, 5,000sq. ft	140 00	
S. K. Chase, 20,076 sq. ft....	401 52	
Mary L. Clement, 10,192sq. ft.	203 84	
Philip Cinqmars, 10,484sq. ft.	275 00	
Samuel Cinqmars, 30,532 sq.		
ft.....	800 00	
Sarah Curry, 5,821 sq. ft ....	116 42	
H. J. Currier, 9,823 sq. ft ...	196 46	
David Chase, 14,713 sq. ft ...	450 00	
Annie K. Coburn, 10,095sq. ft.	350 00	
Mary J. Collins, buildings and		
7,860 sq. ft .....	1,450 00	
J. H. Choquette, 4,520 sq. ft .	113 00	
E. H. Choquette, 9,598 sq. ft.	239 95	
W. H. Dane, 5,809 sq. ft.....	116 18	
Willis E. Dodge, 8,929 sq. ft.	178 58	
	<u>                    </u>	
Amounts carried forward .....	\$ 5,897 73	\$ 7,553 56

Amounts brought forward.....	\$ 5,897 73	\$ 7,553 56
To Alfred Desjardins, 17,756 sq. ft.....	355 12	
Vira M. Floyd, 14,010 sq. ft .	280 20	
Peter A. Fay, 5,000 sq. ft ...	100 00	
John Fitzsimmons, 5,132 sq. ft.	102 64	
Carrie E. Farrar, 5,000 sq. ft.	150 00	
Georgianna Fontaine, 5,000 sq. ft .....	125 00	
B. F. Gately, 10,771 sq. ft ...	215 42	
J. W. Halstead, 5,000 sq. ft ..	100 00	
Sarah A. Hallett, 5,000 sq. ft.	100 00	
Benj. Hodgman, 5,640 sq. ft.	112 80	
Leroy E. Hamblett, 4,623 sq. ft .....	92 46	
Edward S. Howe, 354,763 sq. ft.	3,547 63	
Warren D. Laige, 5,758 sq. ft.	115 16	
Margaret Marley, 14,740 sq. ft.	294 80	
Thomas McPhail, 6,408 .....	128 16	
Annette McKissock, 5,000 sq.	157 00	
Adeline Marchand, 5,077 sq. ft .....	101 54	
John O'Rourke, 26,544 sq. ft.	530 88	
James T. O'Hearn, 8,737 sq. ft.	174 74	
Elizabeth F. Priestly, 5,000 sq. ft .....	100 00	
Amasa Pratt, 5,201 sq. ft ....	104 02	
Julia Provost, 10,000 sq. ft ..	250 00	
Mary Quinn, 4,792 sq. ft ....	95 84	
Electa R. Spray, 19,864 sq. ft.	397 28	
George F. Stiles, 11,010 sq. ft.	220 20	
Wm. Smith, 7,395 sq. ft .....	147 90	
Ellen F. Taylor, 10,528 sq. ft.	210 56	
Augustus Work, 10,270 sq. ft.	205 40	
T. J. Underwood, 219,795 sq. ft .....	3,296 93	
Edmund Gaudette, buildings and 16,349 sq. ft .....	3,750 00	
George W. Cushing, build- ings, and 35½ acres .....	6,000 00	
Total amount of land purchased on Pawtucket Boulevard for Driven Well purposes, 59 acres—8,250 sq. ft.		27,459 41
Amount carried forward.....		\$ 35,012 97



Amount brought forward ..... \$ 35,012 97

Paid for SUNDRIES:

To Appropriation for Engineering .....	\$ 125 25	
Appropriation for Public Buildings, sundries ....	56 55	
Appropriation for Public Buildings, labor .....	52 88	
Appropriation for Water Works, for driving wells	6,105 22	
W. U. Teleg. Co., for telegrams .....	45	
Burnham & Davis, for lumber	118 17	
Wm. H. Wiggin, for lumber.	226 92	
W. T. S. Bartlett, for hardware, etc .....	11 88	
E. P. Flanders & Co., for hardware .....	4 91	
H. B. Shattuck & Son, for hardware .....	310 39	
Thompson Hardware Co., for hardware .....	36 21	
Braman, Dow & Co., for pipe	2,436 95	
H. R. Barker Mfg. Co., for pipe and fittings .....	140 35	
W. W. Carey, for labor .....	6 40	
Coffin Valve Co., for valves..	30 00	
Davis & Farnum Mfg. Co., for filter, reducer and flange	115 00	
Knowles Steam Pump Works, for duplex piston pump.	1,500 00	
Kennedy Valve Mfg. Co., for gate, flanges, etc .....	500 44	
Arthur P. Knapp, for stock and labor .....	62 43	
Mdsx. Machine Co., for fittings .....	68 40	
Staples Bros., for pipe .....	9 00	
Scannell & Wholey, for repairing heater .....	29 70	
Union Iron Foundry for castings .....	51 80	
Warren Foundry and Machinery Co., for pipe...	9,693 48	
Amounts carried forward .....	\$ 21,692 78	\$ 35,012 97



Amounts brought forward .....	\$ 21,692 78	\$ 35,012 97
To Whitlock Coil Pipe Co., for pipe .....	159 00	
P. Conlon, for brick work...	1,432 05	
Gumb Bros., for foundation stone .....	53 00	
Adams Hardware and Paint Co. ....	17 46	
C. B. Coburn & Co., for red lead, glass, oil, packing, etc .....	87 16	
Knowlton Packing Co., for packing .....	30 94	
Wm. E. Livingston, for lime, charcoal, cement, etc...	47 20	
Nat'l Lead Co., for lead.....	1,528 93	
Reliance Gauge Co., for safety water column .....	45 00	
Rice & Co., for wire cloth...	3 45	
Revere Rubber Co., for pack- ing .....	87 63	
Renssalaer Mfg. Co., for valves .....	685 00	
Talbot Dyewood and Chemi- cal Co., for chemicals...	2 94	
John McAskie, for tent.....	5 00	
W. H. Fuller, for labor and use of derrick .....	93 25	
Andrew G. Stiles, for record- ing deeds .....	32 50	
Courier-Citizen Co., for print- ing and advertising.....	6 15	
Daily News Co., for adver- tising .....	5 53	
Lowell Sun, for advertising.	4 37	
Morning Mail Corp., for ad- vertising .....	9 00	
Sunday Telegram, for adver- tising .....	6 07	
O'Donnell & Gilbride Co., for stove lamps .....	7 00	
E. Duren, for teaming.....	377 00	
C. H. Hanson & Co., for team- ing and use of truck....	61 00	
Amounts carried forward.....	<u>\$ 26,479 41</u>	<u>\$ 35,012 97</u>

Amounts brought forward . . . . .	\$ 26,479 41	\$ 35,012 97
To G. E. Stanley, for teaming..	102 00	
J. H. Sparks, for carriage hire . . . . .	15 00	
N. Y., N. H. & H. R. R., for transportation . . . . .	3 20	
Rivet & Hamel, for services looking up titles and pre- paring deeds . . . . .	387 00	
H. J. W. J. Howe, for servi- ces negotiating purchase of land . . . . .	400 00	
George W. Cushing, for in- surance . . . . .	3 66	
	<hr/>	27,390 27
		<hr/>
		\$ 62,403 24
Balance undrawn Dec. 31, 1900..		12,596 76
		<hr/>
		\$ 75,000 00
		<hr/>

## AWARD TO JENNIE W. MACK.

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Appropriated from General Treasury Fund .....	\$ 250 00	
	<u>          </u>	<u>\$ 250 00</u>
 Paid Jennie W. Mack, as per resolution of City Council, on account of death of Alexander Mack, due to injuries received while in the employ of the city .....	 \$ 250 00	
	<u>          </u>	<u>\$ 250 00</u>

## ABOLITION OF GRADE CROSSINGS.

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Annual Appropriation .....	\$ 3,788 94	
	<hr/>	\$ 3,788 94
		<hr/>
Paid Commonwealth of Massa- chusetts .....	\$ 3,788 94	
	<hr/>	\$ 3,788 94
		<hr/>

Balance undrawn Jan. 1, 1900 . . . .	\$ 1,439 02	
	<u>          </u>	<u>\$ 1,439 02</u>
Balance to General Treasury Fund Dec. 31, 1900. . . . .	\$ 1,439 02	
	<u>          </u>	<u>\$ 1,439 02</u>

## CARNEY MEDAL FUND.

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Balance undrawn, Jan. 1, 1900 . . .	\$ 200 00	
	<u>          </u>	\$ 200 00
Balance undrawn Dec. 31, 1900 . .	\$ 200 00	
	<u>          </u>	<u>\$ 200 00</u>



## CITY DEBT.

Annual Appropriation .....	\$309,740 00	
	<hr/>	\$309,740 00
Received from Appropriation for Water Works, instal- ments on notes .....	\$ 30,100 00	
	<hr/>	30,100 00
		<hr/>
		<u>\$339,840 00</u>

## EXPENDITURES.

### Paid on ACCOUNT OF WATER DEBT:

To Sundry persons.....	5,000 00	
To Lowell Institution for Savings.....	25,100 00	
	<hr/>	\$ 30,100 00

### Paid on ACCOUNT OF OR- DINARY CITY DEBT:

To Central Savings Bank .....	\$ 23,250 00	
City Institution for Savings .	7,100 00	
Commissioners of Sinking Funds .....	2,500 00	
Lowell Institution for Sav- ings .....	210,970 00	
Lowell Five Cent Savings Bank .....	3,520 00	
Lee, Higginson & Co .....	15,500 00	
	<hr/>	
Amount carried forward.....	\$ 262,840 00	\$ 30,100 00

Amounts brought forward . . . . .	\$ 262,840 00	\$ 30,100 00
To National Bank of Redemption	7,500 00	
N. E. Life Insurance Co . . . .	1,900 00	
E. H. Rollins & Son . . . . .	10,000 00	
Seaman's Bank for Savings..	17,500 00	
Sundry persons . . . . .	10,000 00	
	<hr/>	\$309,740 00
		<hr/>
		<u>\$339,840 00</u>

CORPORATION TAX.

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Appropriated from General Treasury Fund .....	\$ 56 24	\$ 56 24
		<hr/>
Paid Commonwealth on Account of Tax of 1899 .....	\$ 56 24	\$ 56 24
		<hr/>

## CORPORATION TAX FUND.

Balance undrawn Jan. 1, 1900 . . . .	\$	59 81	
Appropriated . . . . .		10,000 00	
		<hr/>	\$ 10,059 81
			<hr/>

### EXPENDITURES.

#### Paid EXPERTS FOR SERVICES AND EXPENSES:

To Charles A. Allen . . . . .	\$	473 43	
Harry A. Brown . . . . .		407 50	
Edward A. Brigham . . . . .		1,750 00	
James G. Hill . . . . .		1,137 50	
Freelan Morris . . . . .		250 00	
W. A. Sherman . . . . .		247 10	
J. Herbert Shedd . . . . .		597 71	
Woodbury & Leighton . . . . .		250 00	
Jay M. Whitham . . . . .		900 42	
		<hr/>	\$ 6,013 66

#### Paid for SUNDRIES:

To Francis W. Qua, for sundry expenses . . . . .		150 00	
F. E. Rollins, for typewriting . . . . .		1,357 39	
B. M. & M. E. Hutchins, for typewriting . . . . .		3 75	
Lowell Sun, for printing reports . . . . .		82 50	
		<hr/>	
Amount carried forward . . . . .	\$	1,593 64	\$ 6,013 66

## CORPORATION TAX FUND.

269

Amounts brought forward.....	\$ 1,593 64	\$ 6,013 66
To Spencer & Co., for signs ....	29 00	
J. A. Gregoire, for carriage hire .....	18 00	
	<hr/>	\$ 1,631 64
		<hr/>
		\$ 7,645 30
Balance undrawn Dec. 31, 1900 ..		2,414 51
		<hr/>
		<u>\$10,059 81</u>

## FOURTH OF JULY.

Appropriated .....	\$ 4,000 00	
	<u>                    </u>	<u>\$ 4,000 00</u>

### EXPENDITURES.

#### Paid for BELL RINGING:

To Appropriation for School Houses, labor .....	20 90	
J. J. Johnson .....	10 00	
Edward S. Swift .....	10 00	
	<u>                    </u>	\$ 40 90

#### CHILDREN'S ENTERTAINMENT:

To Waterworth & Gorman .....	\$ 150 00	
	<u>                    </u>	150 00

#### CLERK :

To Frank M. Dowling .....	\$ 120 00	
	<u>                    </u>	120 00

#### FIREWORKS:

To Appropriation for Public Buildings .....	\$ 15 55	
Frank M. Dowling .....	17 30	
H. H. Tilton & Co .....	700 00	
	<u>                    </u>	732 85

#### FIREMEN'S MUSTER:

To Appropriation for Commons.	\$ 13 00	
Appropriation for Streets, labor .....	26 00	
	<u>                    </u>	
Amounts carried forward .....	\$ 39 00	<u>\$ 1,043 75</u>



Amounts brought forward .....	\$ 39 00	\$ 1,043 75
To Cyrus Barton .....	15 40	
J. W. Bennett Co .....	12 00	
Wm. H. Brown .....	5 00	
Fred S. Bean .....	5 00	
Courier-Citizen Co .....	1 75	
Columbian Veteran Firemen	200 00	
Gen. Butler Veteran Fire-		
men's Ass'n.....	200 00	
P. H. Hooley .....	5 00	
H. W. Hall, Sec'y Hancock		
Veteran Firemen.....	300 00	
O. A. Libby .....	17 75	
J. J. Richards .....	2 75	
Standard Bottling Co .....	2 54	
H. W. Sheldon .....	5 00	
Spencer & Co .....	3 60	
W. U. Telegraph Co .....	36	
	<hr/>	815 15

## Paid for ORATION:

To C. W. Durant, for loving cup,		
for John C. Burke, orator	\$ 62 00	
J. E. O'Donnell .....	1 00	
	<hr/>	63 00

## Paid for PARADE:

To A. M. Abels .....	49 00	
Amedee Archambault.....	10 00	
Joseph Albert .....	5 00	
May D. Brown .....	15 00	
Columbian Veteran Firemen	50 00	
N. P. Banks Club.....	75 00	
Company C .....	73 42	
Company Q .....	100 00	
Courier-Citizen Co .....	9 35	
Friend Bros.....	10 00	
Greek Orthodox Community	50 00	
C. H. Hanson & Co .....	30 00	
W. E. Hicks .....	15 00	
George W. Jockow.....	10 00	
C. H. Kimball & Co .....	57 58	
Robert W. Mountford .....	14 50	
P. F. McNulty .....	5 00	
	<hr/>	
Amounts carried forward.....	\$ 578 85	\$ 1,921 90

Amounts brought forward .....	\$ 578 85	\$ 1,921 90
To H. C. McOsker .....	15 00	
Neptune Veteran Firemen ..	75 00	
J. E. O'Donnell .....	5 00	
M. T. Rafferty .....	5 00	
J. H. Sparks .....	20 00	
F. A. M. Tobin .....	25 00	
Young Men's Catholic Insti- tute .....	200 00	
	<hr/>	923 85

## Paid for SPORTS:

To Appropriation for Commons.	\$ 11 75	
Appropriation for Public Buildings .....	36 96	
Buckland Printing Co. ....	3 75	
Mr. Barlow .....	15 00	
Courier-Citizen Co .....	2 75	
Edward Gagan .....	5 00	
James Herne .....	5 00	
Wm. Lawton .....	10 00	
Chas. Price .....	5 00	
Mr. Riley .....	5 00	
Mr. Schora .....	3 00	
Mr. Simpson .....	60 00	
Mr. Whittle .....	12 00	
W. U. Teleg. Co .....	91	
	<hr/>	176 12

## Paid for MUSIC:

To Appropriation for Public Buildings .....	\$ 6 75	
Lowell Electric Light Corp- oration .....	10 00	
American Band .....	165 00	
Lowell Cadet Band .....	175 00	
National Band .....	175 00	
Lowell Military Band .....	175 00	
	<hr/>	706 75

## Paid for SUNDRIES:

To Courier-Citizen Co .....	\$ 25 00	
Daily News Co .....	3 58	
Helen A. Dimon .....	6 00	
Frank M. Dowling .....	61	
	<hr/>	
Amounts carried forward .....	\$ 35 19	\$ 3,728 62

Amounts brought forward .....	\$ 35 19	\$ 3,728 62
To C. H. Kimball & Co .....	30 90	
Lepine & Co .....	4 00	
Lowell Bill Posting Co .....	3 00	
Lowell Sun .....	6 50	
Morning Mail Corp .....	8 50	
Sunday Telegram .....	1 50	
Merrimac House .....	14 00	
	<hr/>	103 59
		<hr/>
		\$ 3,832 21
Balance to General Treasury Fund .....		167 79
		<hr/>
		\$ 4,000 00
		<hr/>

## INTEREST.

Annual Appropriation .....	\$130,000 00	
		\$130,000 00
Received from Lowell Institution for Savings.....		630 00
		<hr/>
		\$130,630 00
		<hr/>

## EXPENDITURES.

### Paid for INTEREST:

To Bowery Savings Bank.....	\$ 6,000 00
Central Savings Bank .....	4,843 00
City Institution for Savings..	2,556 00
Commonwealth of Massachu- setts.....	5,450 00
Commissioners of Sinking Funds .....	1,063 50
Lowell Institution for Savings	50,489 99
Lowell Five Cent Savings Bank .....	187 20
Ministry-at-Large .....	600 00
New York Savings Bank ....	2,000 00
N. E. Mutual Life Insurance Co.....	532 00
E. H. Rollins & Son.....	1,300 00
Seaman's Bank for Savings..	4,650 00
Trustees Public Burial Grounds .....	457 05
Trustees Estate of Thomas Nesmith .....	1,500 00
	<hr/>
Amount carried forward .....	\$ 81,628 74

Amount brought forward.....	\$ 81,628 74	
To Treasurer High Street Church .....	60 00	
Washington Institution for Savings .....	105 00	
Sundry Personal Bonds.....	36,152 36	
Lowell Institution for Savings (temporary loans) .....	9,831 93	
Rogers, Newman & Tolman.	2,834 50	
	<hr/>	\$130,612 53
Balance to General Treasury Fund .....		17 47
		<hr/>
		<u>\$130,630 00</u>

## LABOR DAY.

Appropriated .....	\$ 1,000 00	
	<hr/>	\$ 1,000 00
		<hr/>

### EXPENDITURES.

#### Paid for MUSIC:

To American Band .....	\$ 75 00	
Groveland Fife and Drum Corps .....	30 00	
Haverhill City Band .....	75 00	
Lowell Cadet Band .....	150 00	
Lowell Highland Drum Corps .....	31 00	
Lowell Military Band .....	75 00	
McElroy's Brass Band .....	69 00	
Nashua Military Band .....	85 00	
Talbot Mills Band .....	75 00	
	<hr/>	\$ 665 00

#### Paid PRIZES FOR PARADE FEATURES:

To Bar Tenders Union .....	\$ 10 00	
Jas. H. Jordan, manager ....	25 00	
Lowell Printing Pressmen's Union .....	10 00	
Leather Worker's Protective Union, No. 7,061 .....	15 00	
Plumbers Union, Local 9 ....	40 00	
	<hr/>	\$ 100 00

Amount carried forward .....	\$ 775 00
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Amount brought forward ..... \$ 775 00

Paid PRIZES FOR SPORTS:

To Michael Brady .....	\$ 3 00	
C. Hamilton .....	3 00	
Machinists' Tug of War Team	10 00	
Charles Riley .....	3 00	
	<hr/>	19 00

Paid for SUNDRIES:

To W. S. Eaton, for use of horse and saddle .....	3 00	
James E. O'Donnell for hack- ing .....	145 00	
E. A. Simpson, for hacking .	5 00	
C. H. Kimball & Co., for sundries .....	13 00	
Harry F. Harding, for electri- cal work .....	50 00	
	<hr/>	\$ 216 00
		<hr/>
		<u>\$ 1,000 00</u>

## LOWELL TEXTILE SCHOOL.

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Appropriated .....	\$ 6,000 00	
	<u>          </u>	\$ 6,000 00
		<u>          </u>
Paid Trustees Lowell Textile School .....	\$ 6,000 00	
	<u>          </u>	\$ 6,000 00
		<u>          </u>

## LIBRARY.

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Appropriated .....	\$15,725 00	
	<hr/>	\$15,725 00
Paid Trustees Lowell Public Library.....	\$15,725 00	
	<hr/>	\$15,725 00

IMPROVEMENT OF GORHAM STREET  
ENGINE HOUSE.

Appropriated .....	\$ 250 00	
	<u>          </u>	\$ 250 00
		<u>          </u>
Balance to General Treasury		
Fund Dec. 31, 1900 .....	\$ 250 00	
	<u>          </u>	\$ 250 00
		<u>          </u>

## MEMORIAL BUILDING.

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Balance undrawn Jan. 1. 1900 . . . .	\$ 1,726 37	
	<hr/>	\$ 1,726 37
Paid C. F. & J. B. Varnum, on execution . . . . .	\$ 1,726 37	
	<hr/>	\$ 1,726 37
		<hr/>

## PEVEY BROS.' CLAIM.

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Appropriated from General Treasury Fund .....	\$ 7,500 00	<u>\$ 7,500 00</u>
Paid Pevey Bros., for damage to the property, as per order of City Council .....	\$ 7,500 00	<u>\$ 7,500 00</u>



## RECEPTION TO HON. CHARLES H. ALLEN.

Appropriated .....	\$ 300 00	
	\$ 300 00	\$ 300 00

### EXPENDITURES.

#### Paid for SUNDRIES:

To James B. Casey, for sundry expenses .....	\$ 3 60	
Whittet & Co., for flowers ..	30 00	
Charles F. Young & Co., for decorating .....	65 00	
National Band, for music ....	60 00	
C. H. Kimball & Co., for badges, canes, etc .....	37 30	
Butterfield Printing Co., for printing .....	1 25	
Lowell Sun for advertising ..	6 25	
Morning Mail Corp, for advertising .....	3 00	
Ellingwood & Co., for red fire .....	14 75	
C. H. Hanson & Co., for use of equipments .....	27 50	
Troop F Cavalry, for cleaning equipments .....	26 00	
P. F. McNulty, for carriage hire .....	12 50	
Amount carried forward .....	\$ 287 15	

Amount brought forward .....	\$ 287 15	
To M. T. Rafferty, for carriage hire .....	10 00	
	<hr/>	\$ 297 15
Balance to General Treasury Fund .....		2 85
		<hr/>
		\$ 300 00
		<hr/>

## TEMPORARY LOANS.

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Balance undrawn Jan. 1, 1900 . . .	\$ 400,000 00	
Appropriation . . . . .	1,000,000 00	
	<hr/>	\$1,400,000 00

### EXPENDITURES.

Paid Lowell Institution for Sav-		
ings . . . . .	\$700,000 00	
Rogers, Newman & Co. . . . .	225,000 00	
	<hr/>	\$ 925,000 00
Balance undrawn Dec. 31, 1900 . .		475,000 00
		<hr/>
		\$1,400,000 00

## LOCATION OF WATER TOWER.

Balance undrawn Jan. 1, 1900....	\$14,000 00	
	<hr/>	<u>\$ 14,000 00</u>

### EXPENDITURES.

#### Paid for SUNDRIES:

To Sundry persons, for labor..	\$	667 13
Appropriation for Engineer- ing.....		4 32
Appropriation for Hunting- ton Hall, re-building ....		86 79
Appropriation for Streets, sidewalks .....		10 00
Francis Roark, et al for land and building on Middle Street as per order of City Council.....		11,500 00
H. R. Barker Mfg. Co., for labor, material, etc ....		275 08
Chelmsford Foundry Co., for iron work .....		93 89
F. B. Hill & Co., for hangers, bolts, plates, etc.....		15 85
W. A. Mack & Co., for gut- ters and iron work ....		45 00
H. B. Shattuck & Son, for hardware .....		13 45
Thompson Hardware Co., for hardware .....		1 50
Burnham & Davis, for lumber		125 14
		<hr/>
Amount carried forward .....	\$	12,838 15

Amount brought forward . . . . .	\$12,838 15	
To Charles E. Howe & Co., for lumber . . . . .	81 06	
Pratt & Forrest, for lumber.	142 74	
J. W. Bennett & Co., for roof- ing . . . . .	90 00	
W. H. Fuller, for foundation	278 00	
E. A. & A. T. Smith, for con- crete . . . . .	48 70	
F. A. Malorey, for stone work . . . . .	90 00	
W. E. Livingston, for lime, sand and cement . . . . .	55 45	
W. H. Cheney & Co., for brick work . . . . .	297 00	
Charles F. Coburn, for re- cording deed . . . . .	1 60	
B. & M. R. R., for transpor- tation . . . . .	2 16	
G. E. Stanley, for transpor- tation . . . . .	1 50	
	<hr/>	\$13,926 36
Balance to General Treasury Fund . . . . .		73 64
		<hr/>
		<u>\$14,000 00</u>

## SINKING FUNDS.

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The values of the several Sinking Funds, Dec. 31, 1900, which apply to the reduction of the water debt, as reported by the Commissioners of Sinking Funds, are as follows:

Water Loan Sinking Fund . . . . .	\$242,462 11	
Sinking Fund, for High Service Water Supply . . . . .	44,764 09	
	<hr/>	\$287,226 20

The values of the several Sinking Funds, Dec. 31, 1900, which apply to the reduction of the Ordinary City Debt, as reported by the Commissioners of Sinking Funds, are as follows:

Intercepting Sewer Fund . . . . .	\$119,387 33	
City Hall and Memorial Building Sinking Fund . . . . .	111,778 23	
High School Sinking Fund . . . . .	34,434 36	
Extension Rogers Fort Hill Park Sinking Fund . . . . .	40,086 08	
Sinking Fund for New School Houses . . . . .	14,836 92	
	<hr/>	320,522 92
Total value of Sinking Funds Dec. 31, 1900 . . . . .		<hr/> 607,749 12 <hr/>

Total value of the Hapgood Wright Centennial Trust Fund Dec. 31, 1900, was ..	\$ 2,806 92	
	<hr/>	<hr/> \$ 2,806 92 <hr/>



## SINKING FUNDS.

### CITY HALL AND MEMORIAL BUILDING SINKING FUND.

Appropriation in 1900 .....	\$ 7,500 00	
	<u>          </u>	<u>\$ 7,500 00</u>
Paid Commissioners of Sinking Funds .....	\$ 7,500 00	
	<u>          </u>	<u>\$ 7,500 00</u>

### HIGH SCHOOL SINKING FUND.

Appropriated in 1900 .....	\$ 3,000 00	
	<u>          </u>	<u>\$ 3,000 00</u>
Paid Commissioners of Sinking Funds .....	\$ 3,000 00	
	<u>          </u>	<u>\$ 3,000 00</u>

### EXTENSION ROGERS FORT HILL PARK SINKING FUND.

Appropriated in 1900 .....	\$ 6,000 00	
	<u>          </u>	<u>\$ 6,000 00</u>
Paid Commissioners of Sinking Funds .....	\$ 6,000,00	
	<u>          </u>	<u>\$ 6,000 00</u>

### INTERCEPTING SEWER FUND.

Appropriated in 1900 .....	\$ 5,000 00	
	<u>          </u>	<u>\$ 5,000 00</u>
Paid Commissioner of Sinking Funds .....	\$ 5,000 00	
	<u>          </u>	<u>\$ 5,000 00</u>

**WATER LOAN SINKING FUND.**

Appropriated in 1900 .....	\$ 16,000 00	
	<u>                    </u>	\$ 16,000 00
Paid Commissioners of Sinking Funds .....	\$ 16,000 00	
	<u>                    </u>	<u>\$ 16,000 00</u>

**SINKING FUND FOR HIGH SERVICE WATER SUPPLY.**

Appropriated in 1900 .....	\$ 1,800 00	
	<u>                    </u>	\$ 1,800 00
Paid Commissioners of Sinking Funds .....	\$ 1,800 00	
	<u>                    </u>	<u>\$ 1,800 00</u>

**SINKING FUND FOR NEW SCHOOL HOUSES.**

Appropriated in 1900 .....	\$ 4,000 00	
	<u>                    </u>	\$ 4,000 00
Paid Commissioners of Sinking Funds .....	\$ 4,000 00	
	<u>                    </u>	<u>\$ 4,000 00</u>

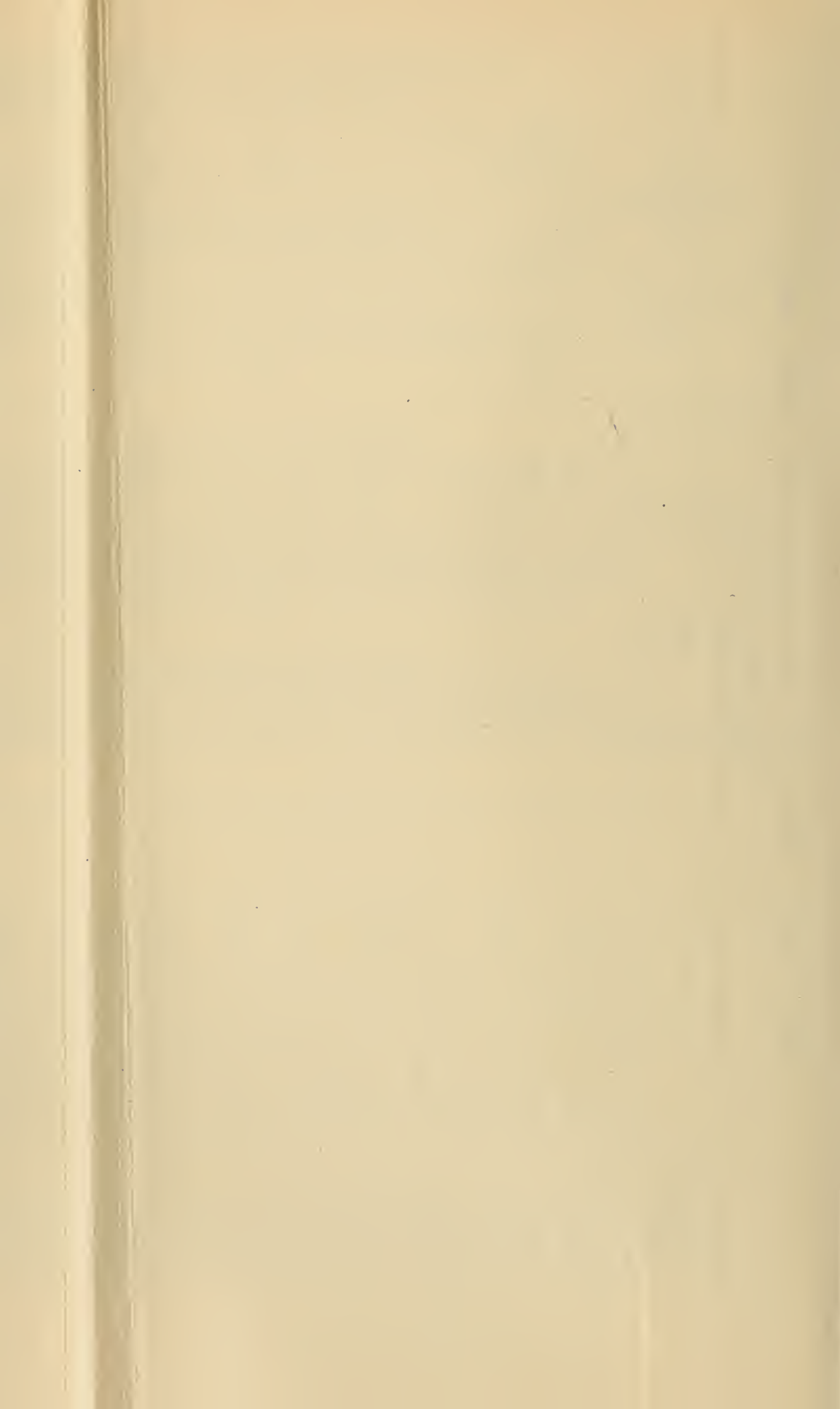
DUE FROM THE CITY ON ORDINARY CITY DEBT.  
DECEMBER 31, 1900.

Date of Securities.	To Whom Payable.	Amount.	Rate.	Interest—When Due.	Interest Due in 1900.	Notes and Int'l's. When Due.	Payments.
*1871, Mar. 6...	Request of Thomas Nesmith.....	\$ 25,000 00	6	March 6 and Sept. 6	\$ 1,500 00	Perpetual	
†1871, April 10...	Bequest of Thomas Nesmith.....	1,000 00	6	April 10 and Oct. 10	60 00	Perpetual	
†1878, May 10...	Bequest of Jonathan Tyler.....	10,000 00	6	May 10 and Nov. 10	600 00	Perpetual	
1882, Oct. 2...	Sundry persons (bonds).....	56,000 00	4	April 2 and Oct. 2	2,240 00	1902, Oct. 2	
1883, April 2...	Perkins, Dupee & Co. (bonds).....	94,000 00	4	April 2 and Oct. 2	3,760 00	1903, April 2	
1890, Oct. 1...	Sundry persons (bonds).....	450,000 00	4	April 1 and Oct. 1	18,000 00	1920, Oct. 1	
1891, April 1...	Sundry persons (bonds).....	150,000 00	4	April 1 and Oct. 1	6,000 00	1921, April 1	
1891, May 16...	Lowell Institution for Savings.....	10,000 00	4	May 16	200 00	1901, May 16	\$ 10,000 00
1891, July 6...	Lowell Institution for Savings.....	6,000 00	4	Jan. 6 and July 6.	240 00	1901, July 6	6,000 00
1891, Sept. 14...	Lowell Institution for Savings.....	4,700 00	4	March 14 and Sept. 14	188 00	1901, Sept. 14	4,700 00
1891, Oct. 19...	Central Savings Bank.....	1,900 00	4	April 19 and Oct. 19	76 00	1901, Oct. 19	1,900 00
1891, Nov. 28...	Lowell Institution for Savings.....	5,500 00	4	May 28 and Nov. 28	220 00	1901, Nov. 28	5,500 00
1892, April 9...	Central Savings Bank.....	10,000 00	4	April 9 and Oct. 9	300 00	1901, April 9	5,000 00
1892, May 4...	Lowell Institution for Savings.....	14,000 00	4	May 4 and Nov. 4	420 00	1901, May 4	7,000 00
1892, June 3...	Central Savings Bank.....	9,000 00	4	June 3 and Dec. 3	270 00	1901, June 3	4,500 00
1892, June 3...	Lowell Institution for Savings.....	7,000 00	4	June 3 and Dec. 3	210 00	1901, June 3	3,500 00
1892, Aug. 31...	Lowell Institution for Savings.....	14,000 00	4	Feb. 28 and Aug. 31	560 00	1901, Aug. 31	7,000 00
1892, Nov. 1...	Lowell Institution for Savings.....	20,000 00	4	May 1 and Nov. 1	800 00	1901, Nov. 1	10,000 00
1893, June 7...	Lowell Institution for Savings.....	11,970 00	4	June 7 and Dec. 7	399 00	1901, June 7	3,990 00
1893, June 17...	Lowell Institution for Savings.....	17,400 00	4	June 17 and Dec. 17	580 00	1901, June 17	5,800 00
1893, Nov. 1...	Lee, Higginson & Co.....	46,500 00	4½	May 1 and Nov. 1	1,976 25	1901, Nov. 1	15,500 00
1893, Dec. 3...	Lowell Institution for Savings.....	36,600 00	4	June 3 and Dec. 3	1,464 00	1901, Dec. 3	12,200 00
1894, Feb. 19...	Sundry persons (bonds).....	70,210 29	3½	Feb. 19 and Aug. 19	2,457 36	1904, Feb. 19	
1894, Feb. 21...	Central Savings Bank.....	10,400 00	4	Feb. 21 and Aug. 21	364 00	1901, Feb. 21	2,600 00
1894, Feb. 21...	Lowell Institution for Savings.....	24,000 00	3¾	Feb. 21 and Aug. 21	813 75	1901, Feb. 21	6,000 00
1894, April 1...	Lowell Institution for Savings.....	6,000 00	4	April 1 and Oct. 1	210 00	1901, April 1	1,500 00
1894, May 4...	Lowell Institution for Savings.....	20,000 00	3½	May 4 and Nov. 4	612 50	1901, May 4	5,000 00
1894, June 29...	Lowell Institution for Savings.....	20,400 00	3½	June 29 and Dec. 29	624 75	1901, June 29	5,100 00
1894, July 12...	Lowell Institution for Savings.....	10,000 00	3½	Jan. 12 and July 12	350 00	1901, July 12	2,500 00
1894, Oct. 19...	Lowell Institution for Savings.....	2,800 00	3½	April 19 and Oct. 19	98 00	1901, Oct. 19	700 00
1894, Oct. 19...	Lowell Institution for Savings.....	40,000 00	3½	April 19 and Oct. 19	1,400 00	1901, Oct. 19	10,000 00
1895, Jan. 4...	Lowell Institution for Savings.....	6,000 00	4	Jan. 4 and July 4	216 00	1901, Jan. 4	1,200 00
1895, Jan. 4...	National Bank of Redemption, Boston.....	37,500 00	4	Jan. 4 and July 4	1,350 00	1901, Jan. 4	7,500 00
1895, Aug. 7...	Sundry persons.....	50,000 00	4	Feb. 7 and Aug. 7	2,000 00	1901, Aug. 7	10,000 00
1895, Nov. 27...	Seamen's Bank for Savings, N. Y.....	50,000 00	4	May 27 and Nov. 27	2,000 00	1901, Nov. 27	10,000 00
1896, May 5...	Lowell Institution for Savings.....	45,000 00	3¾	May 5 and Nov. 5	1,495 31	1901, May 5	7,500 00
1896, May 6...	E. H. Rollins & Son.....	15,000 00	4	May 6 and Nov. 6	550 00	1901, May 6	2,500 00
1896, May 6...	E. H. Rollins & Son.....	15,000 00	4	May 6 and Nov. 6	550 00	1901, May 6	2,500 00
1896, July 1...	Sundry persons (bonds).....	200,000 00	4	Jan. 1 and July 1	8,000 00	1926, July 1	
1896, Sept. 19...	New England Life Insurance Co., Boston...	11,400 00	4	March 19 and Sept. 19	456 00	1901, Sept. 19	1,900 00
1896, Nov. 18...	E. H. Rollins & Son.....	30,000 00	4	May 18 and Nov. 18	1,200 00	1901, Nov. 18	5,000 00
1897, May 11...	The Scamen's Bank for Savings, N. Y.....	52,500 00	4	May 11 and Nov. 11	1,950 00	1901, May 11	7,500 00
1897, Aug. 10...	Lowell Institution for Savings.....	31,500 00	4	Feb. 10 and Aug. 10	1,260 00	1901, Aug. 10	4,500 00
1897, Nov. 8...	Lowell Institution for Savings.....	10,500 00	4	May 8 and Nov. 8	420 00	1901, Nov. 8	1,500 00
1897, Nov. 24...	Lowell Institution for Savings.....	7,070 00	4	May 24 and Nov. 24	282 80	1901, Nov. 24	1,010 00
1898, May 18...	Lowell Institution for Savings.....	80,000 00	4	May 18 and Nov. 18	3,000 00	1901, May 18	10,000 00
1898, July 9...	City Institution for Savings.....	28,000 00	4	Jan. 9 and July 9	1,120 00	1901, July 9	3,500 00
1898, Aug. 6...	Commissioners of Sinking Funds.....	20,000 00	3½	Feb. 6 and Aug. 6	700 00	1901, Aug. 6	2,500 00
1898, Aug. 15...	Lowell Five Cent Savings Bank.....	4,160 00	4	Feb. 15 and Aug. 15	166 40	1901, Aug. 15	520 00
1898, Sept. 22...	Lowell Five Cent Savings Bank.....	24,000 00	4	March 22 and Sept. 22	960 00	1901, Sept. 22	3,000 00
1898, Oct. 4...	City Institution for Savings.....	28,800 00	4	April 4 and Oct. 4	1,152 00	1901, Oct. 4	3,600 00
1898, Nov. 9...	Lowell Institution for Savings.....	80,000 00	4	May 9 and Nov. 9	3,200 00	1901, Nov. 9	10,000 00
1898, Dec. 8...	Lowell Institution for Savings.....	38,400 00	4	June 8 and Dec. 8	1,536 00	1901, Dec. 8	4,800 00
1898, Dec. 8...	Lowell Institution for Savings.....	24,080 00	4	June 8 and Dec. 8	963 20	1901, Dec. 8	3,010 00
1899, Mar. 7...	Lowell Institution for Savings.....	31,500 00	3¾	March 7 and Sept. 7	929 69	1901, March 7	3,500 00
1899, June 1...	Central Savings Bank.....	27,000 00	4	June 1 and Dec. 1	1,020 00	1901, June 1	3,000 00
1899, June 1...	Central Savings Bank.....	15,750 00	4	June 1 and Dec. 1	595 00	1901, June 1	1,750 00
1899, June 10...	Central Savings Bank.....	29,700 00	4	June 10 and Dec. 10	1,122 00	1901, June 10	3,300 00
1899, July 11...	Central Savings Bank.....	10,800 00	4	Jan. 11 and July 11	432 00	1901, July 11	1,200 00
1899, Aug. 9...	Lowell Institution for Savings.....	26,550 00	3¾	Feb. 9 and Aug. 9	829 69	1901, Aug. 9	2,950 00
1899, Aug. 9...	Lowell Institution for Savings.....	27,000 00	3¾	Feb. 9 and Aug. 9	843 75	1901, Aug. 9	3,000 00
1899, Sept. 15...	Lowell Institution for Savings.....	25,200 00	3¾	March 15 and Sept. 15	787 50	1901, Sept. 15	2,800 00
1899, Nov. 6...	Lowell Institution for Savings.....	5,490 00	3 8-10	May 6 and Nov. 6	208 62	1901, Nov. 6	610 00
1899, Nov. 17...	Lowell Institution for Savings.....	23,400 00	4	May 17 and Nov. 17	936 00	1901, Nov. 17	2,600 00
1899, Dec. 23...	Lowell Institution for Savings.....	9,000 00	4	June 23 and Dec. 23	360 00	1901, Dec. 23	1,000 00
1899, Dec. 30...	Lowell Institution for Savings.....	12,600 00	4	June 30 and Dec. 30	504 00	1901, Dec. 30	1,400 00
1900, Feb. 1...	Washington Savings Institution.....	6,000 00	3½	Feb. 1 and Aug. 1	199 50	1901, Feb. 1	600 00
1900, April 3...	Lowell Institution for Savings.....	68,000 00	3¾	April 3 and Oct. 1	2,018 75	1901, April 3	6,800 00
1900, April 14...	Lowell Institution for Savings.....	3,500 00	3¾	April 14 and Oct. 14	103 91	1901, April 14	350 00
1900, April 21...	Lowell Institution for Savings.....	38,500 00	3¾	April 21 and Oct. 21	1,142 97	1901, April 21	3,850 00
1900, May 22...	Lowell Institution for Savings.....	12,000 00	3¾	May 22 and Nov. 22	356 25	1901, May 22	1,200 00
1900, Aug. 6...	Central Savings Bank.....	30,000 00	4	Feb. 6 and Aug. 6	1,200 00	1901, Aug. 6	3,000 00
1900, Oct. 15...	Washington Savings Institution.....	18,000 00	3¾	April 15 and Oct. 15	630 00	1901, Oct. 15	1,800 00
1900, Oct. 31...	Lowell Institution for Savings.....	30,000 00	3¾	April 31 and Oct. 31	1,050 00	1901, Oct. 31	3,000 00
1900, Dec. 26...	Commonwealth of Mass.....	7,500 00	3¾	June 26 and Dec. 26	262 50	1901, Dec. 26	750 00
	Amount of City Debt (ordinary).....	\$ 2,550,780 29		Int. Ordinary City Debt	\$ 97,053 45	Installments Ord. City Debt	\$ 287,990 00
	Amount of Water Loan.....	1,274,700 00		Int. Water Loans	50,768 00	Installments Water Debt	37,600 00
	Total Amount of City Debt.....	\$ 3,825,480 29		Total Int. City Debt	\$ 147,821 45	Total Instal's City Debt	\$ 325,590 00
	Amount of Sinking Funds.....	607,749 12					
	Net City Debt.....	\$ 3,217,731 17					

\* Interest on the same for the poor.

† Interest on the same for High Street Church.

‡ Interest on the same for the poor.





# DUE FROM THE CITY ON WATER LOAN.

DECEMBER 31, 1900.

Date of Securities.	To Whom Payable.	Amount.	Rate.	Interest—When Due.	Interest Due in 1900.	Notes and Installments. When Due.	Payments 1899.
1881, Nov. 1...	Blake Bros. & Co.....	\$ 75,000 00	4	May 1 and Nov. 1.	\$ 3,000 00	1911, Nov. 1.	
1890, Nov. 1...	Sundry Persons (bonds).....	1,000,000 00	4	May 1 and Nov. 1.	40,000 00	1920, Nov. 1.	
*1891, Mar. 9..	Lowell Institution for Savings.....	6,000 00	4	March 9.	120 00	1901, Mar. 9.	\$ 6,000 00
†1892, Dec. 1...	Lowell Institution for Savings.....	20,000 00	4	June 1 and Dec. 1.	800 00	1901, Dec. 1.	10,000 00
†1894, Aug. 6..	Lowell Institution for Savings.....	20,000 00	3½	Feb. 6 and Aug. 6.	700 00	1901, Aug. 6.	5,000 00
†1895, Aug. 7..	Sundry Persons.....	50,000 00	4	Feb. 7 and Aug. 7.	2,000 00	1901, Aug. 7.	5,000 00
†1897, Nov. 8...	Lowell Institution for Savings.....	28,700 00	4	May 8 and Nov. 8.	1,148 00	1901, Nov. 8.	4,100 00
†1900, Aug. 8..	Estabrook & Co.....	75,000 00	4	Feb. 8 and Aug. 8.	3,000 00	1901, Aug. 8.	7,500 00
		\$ 1,274,700 00			\$ 50,768 00		†\$ 37,600 00

\*New Pumping Engine.

†Paid by Water Works.

‡Driven Well Plant.

## STATE TAX.

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Appropriation .....	\$ 44,634 29	
	<hr/>	\$ 44,634 29
Paid Commonwealth, State Tax (ordinary) .....	\$ 39,720 00	
Commonwealth, Armory Loan .....	1,764 29	
Commonwealth, Interest on Armory Loan .....	3,150 00	
	<hr/>	\$ 44,634 29
		<hr/>



## COUNTY TAX.

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Appropriation .....	\$ 70,875 05	
	<hr/>	\$ 70,875 05
		<hr/>
Paid County of Middlesex tax of 1900 .....	\$ 70,875 05	
	<hr/>	\$ 70,875 05
		<hr/>

## NATIONAL BANK TAX.

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Appropriation .....	\$17,461 25	
	<hr/>	\$17,461 25
Paid Commonwealth on Account of Tax of 1900 .....	\$17,461 25	
	<hr/>	\$17,461 25
		<hr/>

## 1899 BILLS.

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### CARE CITY HALL:

To Bartlett & Dow .....	\$	65			
			\$		65

### ELECTIONS:

To T. G. Little .....	\$	7 00			
					7 00

### ENGINEERING:

To Morse Coach Co.....	\$	3 00			
					3 00

### FIRE DEPARTMENT:

To Robert Barris.....	\$	3 45			
C. W. Durant .....		1 90			
G. K. Hammond .....		85			
D. W. Parker .....		4 30			
Henry Reynolds.....		6 00			
					16 50

### HUNTINGTON HALL:

To B. & M. R. R.....	\$	625 00			
					625 00

### INCIDENTALS:

To Helen A. Dimon .....	\$	7 50			
					7 50

### LAW:

To Middlesex County .....	\$	52 50			
					52 50

Amount carried forward.....			\$		712 15
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Amount brought forward ..... \$ 712 15

PAUPERS, ALMSHOUSE:

To Appropriation for Water Works .....	\$ 334 76	
James Blakely .....	2 25	
B. & M. R. R. ....	1 60	
Caswell, Livermore & Co ...	35 00	
Cohen Bros .....	7 24	
Drury & Green .....	165 91	
Joseph Flynn .....	36 00	
Fleischman & Co .....	7 80	
W. E. Hatch .....	1 80	
Kilpartrick Bros .....	49 25	
O'Donnell & Gilbride Co ....	110 67	
Oakdale Manufacturing Co :	93 00	
Henry S. Perham .....	2 34	
Daniel Swan .....	231 41	
S. M. Tuttle .....	24 75	
F. A. M. Tobin .....	46 00	
		1,149 78

PAUPERS, OUTDOOR RELIEF:

To John H. Burke & Co .....	\$ 2 00	
Barrett Bros .....	6 00	
Broadway Provision Co ....	2 50	
City of Beverly .....	45 75	
Fall River .....	51 75	
Haverhill .....	98 90	
Holyoke .....	39 35	
Lawrence .....	126 95	
Lynn .....	79 50	
Salem .....	4 92	
Somerville .....	38 00	
Waltham .....	4 35	
Worcester .....	105 00	
Commonwealth of Massachusetts .....	809 06	
Humphrey Coffey .....	3 00	
Ellingwood & Co .....	1 75	
Highland Steam Laundry ...	1 09	
Hospital Cottages, for children .....	42 71	
A. J. Halpin .....	16 66	
Amounts carried forward .....	\$ 1,479 24	\$ 1,861 93

Amounts brought forward .....	\$ 1,479 24	\$ 1,861 93
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To Massachusetts Hospital for		
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Epileptics .....	42 71	
T. F. McSorely .....	3 00	
O. P. Porter .....	42 34	
Henry Reynolds .....	7 80	
Town of Amesbury .....	9 55	
Groveland .....	17 00	
Norwood .....	65 50	
John A. Weinbeck .....	6 00	
Worcester Insane Asylum ..	299 00	

		1,972 14
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SEWER MAINTENANCE:		
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To Morse Coach Co .....	\$ 3 00	
D. Swan .....	22 50	

		25 50
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STREET DEPARTMENT:		
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To A. F. Frost's Steam Laundry	2 04	
Charles E. Gee .....	13 20	
C. M. Holmes .....	3 20	

		18 44
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SUPPLY:		
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To G. C. Prince & Son .....	\$ 6 00	
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		6 00
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		<u>\$ 3,884 01</u>
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## GENERAL TREASURY FUND, TAXES.

Uncollected Jan. 1, 1900 .....	\$ 469,009 41	
Assessment, 1900 .....	1,418,923 17	
	<hr/>	<u>\$1,887,932 58</u>
Receipts .....	\$1,325,811 26	
Abated by Assessors.....	35,575 86	
	<hr/>	<u>\$1,361,387 12</u>
Uncollected Dec. 31, 1900 .....		<u>\$ 526,545 46</u>



## GENERAL TREASURY FUNDS, LOANS.

Received from Sundry persons on account of Permanent Loans.....	\$ 288,500 00	
Received from Sundry persons on account of Temporary Loans.....	1,000,000 00	
		<u>\$1,288,500 00</u>

### APPROPRIATED.

To Sewer Construction.....	\$ 95,000 00	
Sewer Willard and Hum- phrey Streets .....	6,000 00	
Commons .....	500 00	
Extension of Fort Hill Park.....	3,000 00	
Improvement of Edson Cemetery Annex ....	3,500 00	
Paving Jackson Street ...	3,000 00	
Paving Market Street....	12,000 00	
High School Annex .....	45,000 00	
Rebuilding Huntington Hall .....	23,000 00	
Underground Wires, Po- lice Department .....	5,000 00	
Underground Wires, Fire Department.....	10,000 00	
Pevey Bros. Claim .....	7,500 00	
Driven Wells .....	75,000 00	
Temporary Loans .....	1,000,000 00	
		<u>\$1,288,500 00</u>

## GENERAL TREASURY FUND, ORDINARY.

Balance undrawn Jan. 1, 1900 . . . .	\$ 18,974 46	
	<hr/>	\$ 18,974 46
Received into General Treasury Fund from the following Ap- propriations on accounts :		
From Abatement of Taxes . . . . .	\$ 186 66	
City Cemeteries, Sundries	8,073 80	
City Clerk, Sundries . . . . .	1,561 63	
City Scales . . . . .	160 08	
City Sealer . . . . .	359 86	
City Treasurer . . . . .	2,670 25	
Commons, Sundries . . . . .	715 40	
Elections . . . . .	50 00	
Fire Department . . . . .	286 88	
Health Office, Sundries . . .	51 50	
Health Yard, Sundries . . .	3,595 53	
Heating City Hall and Memorial Building, Sundries . . . . .	8 50	
Huntington Hall Rebuild- ing . . . . .	15 63	
Huntington Hall Mainte- nance . . . . .	515 00	
Incidentals . . . . .	3,791 98	
Inspector of Milk, Vinegar, etc . . . . .	136 00	
Inspector of Wires . . . . .	90 00	
Liquor Licenses . . . . .	166,146 00	
	<hr/>	
Amount carried forward . . . . .	\$ 188,414 70	

Amount brought forward.....	\$188,414 70	
From Lighting .....	20 00	
Military Aid .....	4,417 00	
Pauper Department, Alms- house .....	1,185 28	
Pauper Department, Out Door Relief .....	6,605 60	
Police .....	13,776 21	
Public Buildings .....	7,237 51	
Schools .....	3,724 00	
Sewer Construction.....	14,669 88	
Soldiers Relief .....	812 00	
State Aid .....	15,264 00	
Streets .....	11,859 09	
Supply .....	2 00	
Watering Streets .....	10,921 08	
Corporation Tax .....	79,278 69	
Grade Crossings .....	33,521 35	
Interest.....	27,272 08	
National Bank Tax .....	5,395 66	
Excise Tax (1899).....	4,902 09	
Excise Tax (1900).....	6,083 13	
Armory Rent .....	1,200 00	
Street Railway Tax.....	8,808 42	
	<hr/>	\$445,369 77
Transferred from Sundry De- partments .....		57,753 19
		<hr/>
		\$522,097 42
Appropriated for 1899 bills .....	\$ 3,884 01	
Appropriated for Department Ex- penses of 1900 .....	504,571 05	
	<hr/>	\$508,455 06
		<hr/>
		\$ 13,642 36
		<hr/> <hr/>

## TAXES.

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The amount of taxes assessed on the Polls and on the Real and Personal Estates within the City of Lowell, for the year 1900, was as follows:

### VALUATION OF AND TAX ON REAL AND PERSONAL PROPERTY.

VALUATION.	RATE.	TAX.
Real Estate . . . \$56,031,885 00	\$18 80 per \$1,000	\$1,053,399 44
Personal Estate 15,497,630 00	18 80 per 1,000	291,355 44
Total valuation \$71,529,515 00	Tax on Property	\$1,344,754 88
Number of Polls, 25,837 at \$2.00 each . . . . .		\$ 51,674 00
		<u>\$1,396,428 88</u>
Tax assessed on shares of stock in the National banks of Lowell, held by non-residents and which are not included in the City Valuation . . . . .		17,330 59
		<u><u>\$1,413,759 47</u></u>

## COST OF SEWERS LAID IN 1900.

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Bridge Street. Extension into Merrimack River .....	\$ 1,075 22
Corbett Street. From Gorham Street, easterly, a distance of six hundred eleven (611) feet .....	967 75
Eighteenth Street. From Humphrey Street, westerly, a distance of two hundred eighty (280) feet .....	733 71
Foster Street. From the end of the sewer, northerly, from Westford Street, southerly a distance of two hundred twelve (212) feet .....	783 92
Gorham Street. From Saratoga Street, southerly, a distance of eight hundred forty-two (842) feet .....	1,825 82
High Street. From a point near Rogers Street, southerly, a distance of three hundred forty-five (345) feet .....	1,217 41
John Street. From the end of the sewer, southerly from Paige Street, northerly, a distance of one hundred seven (107) feet .	689 47
McKinley Avenue. From Stevens Street, westerly, a distance of four hundred fifty-nine (459) feet .....	883 03
Merrill Street. From Rogers Street, northerly, a distance of one hundred fifty-five (155) feet .....	655 82
Montreal Street. From Main Street, westerly, a distance of two hundred sixty-four (264) feet .....	433 67
New Street. From Crosby Street, easterly, a distance of one hundred thirty-eight (138) feet .....	319 10

Pawtucket Street. From Wilder Street, westerly, a distance of five hundred twenty-five (525) feet .....	\$ 1,071 20
Pawtucket Street. From a point near Moody Street, westerly, a distance of three hundred sixty (360) feet .....	1,530 71
Plain Street. From Main Street to the centre of Payton Street, a distance of three hundred thirteen (313) feet .....	627 07
Quebec Street. From London Street, northerly, a distance of one hundred ninety-six (196) feet .....	368 37
Rogers Street. From Merrill Street, easterly, a distance of four hundred nine (409) feet .....	11,699 74
Sanders Avenue. From Pine Street, southerly, a distance of three hundred ninety-one (391) feet .....	2,476 03
Saratoga Street. From Gorham Street, easterly, a distance of six hundred seventy-one (671) feet .....	868 93
Whipple Street. From the end of the sewer southerly from Central Street, northerly, a distance of one hundred ninety-nine (199) feet .....	530 48
Wilder Street. From B Street, northerly, a distance of two hundred thirty-five (235) feet .....	668 15
Willard and Humphrey Streets (Completed.) From Nineteenth Street in Willard Street northerly, and westerly to Humphrey Street, and southerly in Humphrey Street to a point near Methuen Street, a distance of two thousand five hundred thirty-two (2532) feet .....	9,890 31
Woodward Avenue (Unfinished.) From Mammoth Road, westerly, a distance of one thousand eight hundred ninety (1890) feet .....	46,458 04
Cost of Sewers Constructed in 1900 .....	\$ 85,773 95
Cost of Sewers Constructed previous to 1900 ..	2,474,516 59
Total Cost of Construction of Sewers to Jan 1, 1901 .....	<u>\$2,560,290 54</u>

DAVID CHASE, *Auditor.*



ACCOUNT OF CITY TREASURER AND  
COLLECTOR OF TAXES FOR  
THE YEAR 1900.

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LOWELL, MASS., January 1, 1901.

TO THE HONORABLE THE CITY COUNCIL:

*Gentlemen:*—I have the honor to submit the following report of the receipts and expenses of the City of Lowell for the financial year 1900.

Respectfully submitted,

ANDREW G. STILES,

*City Treasurer and Collector of Taxes.*

Andrew G. Stiles, City Treasurer and Collector of Taxes, in

DR. To cash received on account of:

Cash Balance, January 1, 1900....	\$ 93,693 32
Commons, Salaries and Labor ...	51 87
Commons, Sundries .....	38 25
Elections .....	9 00
Engineering .....	8,957 18
Fire Dept., Sundries.....	85
Huntington Hall, Re-building ...	286 79
Indexes, City Clerk's Office .....	1 75
Pauper Dept., Almshouse.....	11,619 16
Pauper Dept., Out-Door Relief ..	143 20
Lighting, Sundries .....	5 00
Police Dept., Salaries and Labor.	2,240 88
Public Buildings, Labor .....	1,105 36
Public Buildings, Sundries .....	612 43
School Houses, Labor.....	1,282 82
School Houses, Sundries.....	1,237 33
High School Annex .....	296 83
Sewer Construction.....	927 00
Sewer Maintenance, Labor.....	18 25
Sewer Maintenance, Sundries ...	866 42
Willard and Humphrey Streets Sewer .....	21 56
Soldiers Relief .....	46 00
State Aid.....	32 00
Streets, Salaries and Labor .....	4,023 48
Fuel, Hay, Grain, etc ...	522 00
Lumber, Hardware, Brick, etc .....	1 10
Horses, Carriages, etc ..	1,704 14
Painting Aiken Street Bridge.....	9 63
Sundries .....	312 00
Sidewalks .....	10 00
Extension of Aiken Street .....	1 37
Watering Streets, Labor.....	112 00
Water Works.....	210,149 86
City Debt .....	30,100 00
Interest.....	630 00
Huntington Hall, Maintenance ..	1 80
	<hr/>
	\$ 371,070 63
	<hr/>
Amount carried forward.....	\$ 371,070 63

## Account with the City of Lowell for the Financial Year 1900.

By cash paid on account of:		CR.
Abatement of Taxes.....	\$	3,233 89
Assessors, Salaries.....		12,492 40
Assessors, Sundries.....		1,783 93
Auditor, Salaries.....		3,100 00
Auditor, Sundries.....		440 80
Care of City Hall, Labor.....		4,977 14
Police Officer.....		1,003 75
Sundries.....		892 47
City Cemeteries, Labor.....		5,818 10
City Cemeteries, Sundries.....		3,310 41
Repairing Wall, School Street Cemetery.....		156 50
City Cemeteries, New Fence....		350 00
City Cemeteries, Painting Fence		484 45
City Clerk, Salaries.....		3,936 00
City Clerk, Sundries.....		1,139 52
City Messenger, Salaries.....		1,200 00
Carriage Hire..		45 50
Sundries.....		248 73
City Scales.....		800 00
City Sealer.....		410 00
City Treasurer, Salaries.....		6,882 10
City Treasurer, Sundries.....		3,847 85
Clerk of the Common Council...		300 00
Commons, Salaries and Labor...		10,175 40
Sundries.....		2,463 73
Repairing Walks.....		428 57
Elections.....		6,692 56
Registrars, Salaries and clerkhire		2,752 50
Registrars, Printing and Sundries		967 34
Engineering.....		16,352 39
Fish Warden.....		40 00
Fire Dept., Salaries.....		100,570 49
Fire Dept., Sundries.....		20,264 35
Health Dept. Office, Salaries....		8,697 00
Sundries.....		1,327 72
Yard, Labor.....		27,108 90
Yard, Sundries....		9,132 49
Heating City Hall and Memorial Building, Labor.....		2,879 06
Heating City Hall and Memorial Building, Sundries.....		1,341 00
Amount carried forward.....	\$	268,047 04

Andrew G. Stiles, City Treasurer and Collector of Taxes, in  
DR. To cash received on account of:

Amount brought forward . . . . . \$ 371,070 63

General Treasury Fund re-  
ceipts:

Abatement of Taxes . . . . .	\$ 186 66
City Cemeteries . . . . .	8,073 80
Clerk . . . . .	1,561 63
Sealer . . . . .	359 86
Treasurer . . . . .	2,670 25
Weigher . . . . .	160 08
Commons . . . . .	1,215 40
Corporation Tax . . . . .	79,278 69
Elections . . . . .	50 00
Extension of Fort Hill Park . . . .	3,000 00
Fire Dept. . . . .	286 88
Health Dept., Office . . . . .	51 50
Health Dept., Yard . . . . .	3,595 53
Incidentals . . . . .	3,791 98
Huntington Hall, Maintenance . .	515 00
Huntington Hall, Rebuilding . . .	23,015 63
Improvement Annex Edson Cem- etery . . . . .	3,500 00
Inspector of Milk . . . . .	136 00
Interest . . . . .	27,272 08
Inspector of Wires . . . . .	90 00
Liquor Licenses . . . . .	166,146 00
Pauper Dept., Almshouse . . . . .	1,185 28
Pauper Dept., Out-Door Relief . .	6,605 60
Police . . . . .	13,776 21
Public Buildings . . . . .	7,237 51
Schools . . . . .	3,724 00
High School Annex . . . . .	45,000 00
Willard and Humphrey Streets Sewer . . . . .	6,000 00
Sewer Construction . . . . .	109,669 88
Streets . . . . .	11,859 09
Paving Market Street . . . . .	12,000 00
Supply Dept . . . . .	2 00
Soldiers Relief . . . . .	812 00
Temporary Loans . . . . .	1,000,000 00
Watering Streets . . . . .	10,921 08
Grade Crossings . . . . .	33,521 35
Driven Wells . . . . .	75,000 00

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Amounts carried forward . . . . . \$1,662,270 97 \$ 371,070 63

## Account with the City of Lowell for the Financial Year 1900.

By cash paid on account of:

CR.

Amount brought forward . . . . .	\$ 268,047 04
Heating City Hall and Memorial Building, Fuel . . . . .	3,178 88
Huntington Hall, Re-building . . .	32,879 67
Incidentals . . . . .	3,767 93
Indexes, City Clerk's Office . . . .	281 25
Inspector of Milk and Vinegar, Salaries . . . . .	2,126 00
Inspector of Milk and Vinegar, Sundries . . . . .	203 97
Inspector of Animals, Provisions, etc . . . . .	500 00
Inspector of Wires, Salaries . . . .	2,131 42
Inspector of Wires, Sundries . . . .	513 55
Inspector of Wires, Expense of Team . . . . .	49 15
Law Dept., Salaries . . . . .	4,750 00
Law Dept., Sundries . . . . .	1,205 69
Liquor Licenses . . . . .	41,937 75
Lighting, Labor . . . . .	7,335 51
Lighting, Sundries . . . . .	78,582 08
Mayor's Dept . . . . .	4,301 26
Military Aid . . . . .	6,966 00
Pauper Dept., Almshouse . . . . .	57,058 64
Pauper Dept., Out-Door Relief . .	55,148 10
Police, Salaries and Labor . . . . .	124,688 74
Police, Sundries . . . . .	8,837 35
Public Buildings, Salaries . . . . .	2,251 50
Labor . . . . .	9,781 99
Sundries . . . . .	7,118 14
Pound Keeper . . . . .	5 00
Rifle Range, Janitor . . . . .	457 50
Rifle Range, Painting, etc . . . . .	49 77
Rifle Range, Trap Doors, Grading, Sundries . . . . .	181 51
School Dept . . . . .	275,320 31
School Houses, Labor . . . . .	11,744 14
Janitors . . . . .	29,358 50
Kalsomining . . . .	600 00
Sundries . . . . .	4,023 11
Sanitararies . . . . .	2,080 35
Amount carried forward . . . . .	\$1,047,461 80



Andrew G. Stiles, City Treasurer and Collector of Taxes, in  
Dr. To cash received on account of:

Amounts brought forward..... \$1,662,270 97 \$ 371,070 63

Heating City Hall and Memorial Building .....	8 50	
Lighting .....	20 00	
Placing Wires, Police Dept., Underground.....	5,000 00	
Placing Wires, Fire Dept., Underground .....	10,000 00	
Paving Jackson Street .....	3,000 00	
Street Railway Tax .....	8,808 42	
Military Aid .....	4,417 00	
State Aid .....	15,264 00	
National Bank Tax .....	5,395 66	
Award to Pevey Brothers .....	7,500 00	
Excise Tax .....	6,083 13	
Armory Rent.....	1,200 00	
Taxes of 1896 .....	235 75	
1897 .....	5,555 06	
1898 .....	104,170 68	
1899 .....	134,125 66	
1900 .....	1,081,724 11	
		3,054,778 94
		<u>\$3,425,849 57</u>



Account with the City of Lowell for the Financial Year 1900.

By cash paid on account of:

CR.

Amount brought forward.....	\$1,047,461 80
High School Annex .....	55,151 94
Carter Street School House .....	585 67
Sewer Construction .....	99,162 52
Sewer Maintenance, Labor.....	10,218 11
Inspector...	939 00
Sundries...	3,408 89
Willard and Humphrey Streets	
Sewer .....	9,890 31
Soldiers Relief .....	9,278 36
State Aid .....	14,951 00
State Aid, Office Expenses .....	1,988 49
Streets, Salaries and Labor .....	92,316 99
Fuel, Hay, Grain, etc...	10,836 36
Lumber, Hardware,	
Brick, etc.....	12,637 18
Land Damages .....	3,466 00
Engineering .....	3,795 14
Horses, Carriages, etc.	2,594 37
Trap Rock.....	2,027 90
Edgestones .....	3,380 65
Painting Aiken Street	
Bridge.....	2,791 84
Sidewalks.....	4,939 72
Sundries .....	7,288 68
Extension of Aiken Street .....	4,429 70
Extension of Lundberg Street ..	2,022 80
Supply Dept., Purchasing Agent	2,400 00
Sundries .....	852 05
Typewriter .....	659 00
Inspector .....	733 17
Clerk .....	626 00
Watering Streets, Labor.....	6,104 65
Watering Streets, Sundries .....	4,679 50
Water Works .....	202,634-80
Abolition of Grade Crossings....	3,788 94
City Debt .....	339,840 00
Corporation Tax .....	56 24
County Tax .....	70,875 05
Corporation Tax Fund .....	7,645 30
Award to Jennie W. Mack.....	250 00
Amount carried forward.....	\$2,046,708 12



## Account with the City of Lowell for the Financial Year 1900.

By cash paid on account of:

CR.

Amount brought forward .....	\$2,046,708 12
Award to Pevey Brothers .....	7,500 00
Interest .....	130,612 53
National Bank Tax .....	17,461 25
State Tax .....	44,634 29
Sinking Funds .....	43,300 00
Temporary Loans .....	925,000 00
Memorial Building .....	1,726 37
Library .....	15,725 00
Soldiers and Sailors Memorial Tablets .....	1,017 30
1899 Bills .....	3,884 01
Fourth of July .....	3,832 21
Labor Day .....	1,000 00
Reception to Hon. C. H. Allen ...	297 15
Location of Water Tower .....	13,926 36
Extension of Fort Hill Park ....	3,061 04
Lowell Textile School .....	6,000 00
Paving Market Street .....	11,889 20
Driven Wells .....	62,403 24
Improvement Annex Edson Cem- etery .....	1,523 24
Placing Wires, Fire Dept., Un- derground .....	3,026 89
Placing Wires, Police Dept., Un- derground .....	528 00
Huntington Hall .....	1,839 54
Paving Mammoth Road, Suffolk and Bridge Streets .....	4,389 77
Paving Jackson Street .....	2,558 90
	<hr/>
	\$3,353,844 41
Cash Balance, January 1, 1901 ...	72,005 16
	<hr/>
	\$3,425,849 57
	<hr/>

# REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS FOR THE YEAR 1900.

LOWELL, MASS., January 1, 1901

TO THE HONORABLE THE CITY COUNCIL OF LOWELL:

*Gentlemen:*—The Commissioners of Sinking Funds of the City of Lowell have the honor to submit the following report of the several Sinking Funds of said City, and of the Hapgood Wright Centennial Trust Fund, for the year 1900:

Full value of all Sinking Funds Jan. 1, 1901.....	\$607,749 12
Full value of all Sinking Funds Jan 1, 1900 .....	567,955 54
Increase during the year 1900 ...	<u>\$ 39,793 58</u>
Value of Water Loan Sinking Funds Jan. 1, 1901.....	\$287,226 20
Value of Water Loan Sinking Funds Jan. 1 1900 .....	273,623 35
Increase during the year 1900 ...	<u>\$ 13,602 85</u>
Value of all Sinking Funds Jan. 1, 1901 .....	\$320,522 92
Value of all Sinking Funds Jan. 1, 1900 .....	294,332 19
Increase during the year 1900 ...	<u>26,190 73</u>

Total increase as above .....	<u>\$ 39,793 58</u>
Value of Hapgood Wright Centennial Trust Fund January 1, 1901 .....	\$ 2,806 92
Value of Hapgood Wright Centennial Trust Fund January 1, 1900 .....	<u>2,699 00</u>
Increase during the year 1900 ...	<u>\$ 107 92</u>

A statement of the receipts, payments and present value of the several Sinking Funds, and a list of the securities in each fund, follows:

# 320 REPORT OF THE COMMISSIONERS OF SINKING FUNDS.

	SECURITIES.	CASH.	TOTAL.
<b>Water Loan Sinking Fund.</b>			
On hand Jan 1, 1900 .....	\$ 203,000 00	\$ 26,237 70	\$ 229,237 70
Received during 1900:			
Cash—Annual appropriation .....		16,000 00	
Income on investments .....		8,587 50	
Income on Bank Deposits .....		843 75	
Securities matured .....		13,000 00	
Securities bought in 1900 .....	47,000 00		
	\$ 253,000 00	\$ 64 668 95	
Paid for securities in 1900 .....		59,206 84	
On hand Jan. 1, 1901 .....	237 000 00	\$ 5,462 11	\$ 242,462 11
Increase during 1900 .....			\$ 13,224 41
Securities belonging to this fund:			
3 City of Springfield coupon bonds, \$1,000, 6 per cent	\$ 3,000 00		
4 City of Lewi-ton coupon bonds, \$1,000, 5 per cent	4,000 00		
12 City of Everett registered bonds, \$1,000, 4 per cent	12,000 00		
13 Town of Sharon coupon bonds, \$1,000, 4 per cent	13,000 00		
1 Town of Athol coupon bonds, \$1,000, 4 per cent.	12,000 00		
1 City of Boston registered bond, \$61,000, 4 per cent	61,000 00		
15 City of Portsmouth coupon bonds, \$1,000, 4 per cent .....	15,000 00		
14 City of Waterville, Me., coupon bonds, \$1,000, 4 per cent .....	14,000 00		
9 City of Saginaw, Mich., coupon bonds, \$1,000, 4 per cent .....	9,000 00		
4 City of Saginaw, Mich., coupon bonds, \$1,000 4 per cent .....	4,000 00		
1 City of Lowell serial bond, 3½ per cent .....	20,000 00		
15 City of Fitchburg R. R. coupon bonds, 4 per cent	15,000 00		
8 C. B. & Q. R. R. Neb. Ext. coupon bonds, 4 per cent .....	8,000 00		
4 Illinois Central Cairo Bridge coupon bonds, 4 per cent .....	4,000 00		
18 Portland & Ogdensburg coupon bonds, 5 per cent .....	18,000 00		
1 Boston & Maine R. R. registered bond, \$10,000, 4 ½ per cent .....	10,000 00		
30 Northwestern Union R. R. coupon bonds, 7 per cent .....	15,000 00		
			\$ 237,000 00
Cash on deposit in Appleton National Bank, 3¾ per cent .....			5,462 11
			\$ 242,462 11



	SECURITIES.	CASH.	TOTAL.
<b>High Service Water Loan Sinking Fund.</b>			
On hand Jan. 1, 1901 .....	\$ 40,000 00	\$ 4,385 65	\$ 44,385 65
Received during 1900 :			
Cash—Annual Appropriation .....		1,800 00	
Income on investments .....		1,873 34	
Income on bank deposits .....		148 12	
Securities matured .....		9,000 00	
Securities bought during 1900 .....	11,000 00		
	\$ 51,000 00	\$ 17,207 11	
Paid for securities in 1900 .....		14,443 02	
On hand Jan. 1, 1901 .....	42,000 00	\$ 2,764 09	\$ 44,764 09
Increase during 1900 .....			\$ 378 44
Securities belonging to this fund :			
2 Town of Beverly coupon bonds, \$1,000, 4 per cent	\$ 2,000 00		
4 City of Providence coupon bonds, \$1,000, 5 per cent .....	4,000 00		
1 City of Cambridge coupon bond, \$1,000, 6 per cent	1,000 00		
4 Town of Danvers coupon bonds, \$1,000, 5 per cent	4,000 00		
5 Town of Rockport coupon bonds, \$1,000, 4 per cent .....	5,000 00		
1 City of Lynn registered bond, 4 per cent .....	6,000 00		
1 City of Portsmouth coupon bond, \$1,000 4 per cent .....	1,000 00		
4 City of Saginaw, Mich., coupon bonds, \$1,000, 4 per cent .....	4,000 00		
4 C. B. & Q. R. R. Neb. Ext. coupon bonds, 4 per cent .....	4,000 00		
4 Portland & Ogdensburg coupon bonds, 5 per cent .....	4,000 00		
7 Winona & St. Peter R. R. coupon bonds, 7 per cent .....	7,000 00		
			\$ 42,000 00
Cash deposited in Appleton National Bank 3½ per cent .....			2,764 09
			\$ 44,764 09

322 REPORT OF THE COMMISSIONERS OF SINKING FUNDS.

	SECURITIES.	CASH.	TOTAL.
<b>Intercepting Sewer Sinking Fund.</b>			
On hand Jan. 1, 1900 .....	\$ 100,500 00	\$ 11,191 39	\$ 111,691 39
Received during 1900 :			
Cash—Annual appropriation .....		5,000 00	
Income on investments .....		4,460 00	
Income on bank deposits .....		471 05	
Securities bought in 1900 .....	11,000 00		
	\$ 111,500 00	\$ 21,122 44	
Paid for securities in 1900 .....		13,235 11	
On hand Jan 1, 1901 .....	111,500 00	\$ 7,887 33	\$ 119,387 33
Increase during 1900 .....			\$ 7,695 94
Securities belonging to this fund :			
4 City of Providence registered bonds, \$10,000, 5 per cent .....	\$ 40,000 00		
3 City of Providence registered bonds, \$1,000, 5 per cent .....	3,000 00		
1 City of Providence coupon bond, \$1,000, 5 per cent .....	1,000 00		
1 State of New Hampshire, coupon bond, \$500, 6 per cent .....	500 00		
10 City of Melrose coupon bond, \$1,000, 4 per cent .....	10,000 00		
8 City of Melrose coupon bond, \$1,000, 4 per cent .....	8,000 00		
1 City of Lynn registered bond, \$14,000, 4 per cent .....	14,000 00		
6 Town of Bradford registered bonds, \$500, 4 per cent .....	3,000 00		
5 City of Portsmouth coupon bonds, \$1,000, 4 per cent .....	5,000 00		
7 City of Indianapolis coupon bond, \$1,000, 4 per cent .....	7,000 00		
1 City of Lowell registered bond, \$2,000, 3½ per cent .....	2,000 00		
2 City of Saginaw, Mich., coupon bond, \$1,000, 4 per cent .....	2,000 00		
5 C. B. & Q. R. R. Neb. Ext. coupon bond, \$1,000, 4 per cent .....	5,000 00		
2 St. Johnsbury & Lake Champlain R. R. coupon bonds, \$1,000, 4 per cent .....	2,000 00		
9 Boston & Maine R. R. coupon bonds, \$1,000, 4 per cent .....	9,000 00		\$ 111,500 00
Cash on deposit in Appleton National Bank, 3½ per cent .....			1,122 44
Cash on deposit in Middlesex Trust Co., 3¾ per cent .....			6,764 89
			\$ 119,387 33

	SECURITIES.	CASH.	TOTAL.
<b>High School Sinking Fund.</b>			
On hand Jan. 1, 1900 .....	\$ 26,710 29	\$ 4,287 09	\$ 30,997 38
Received during 1900:			
Cash—Annual Appropriation .....		3,000 00	
Income on Investments .....		1,167 36	
Income on Bank Deposits.....		130 12	
Securities bought during 1900.....	7,000 00		
Paid for securities during 1900 .....	\$ 33,710 29	\$ 8,584 57 7,860 50	
On hand Jan. 1, 1901 .....	\$ 33,710 29	\$ 724 07	\$ 34,434 36
Increase during 1900.....			\$ 3,436 98
Securities belonging to this fund:			
1 City of Keene coupon bond, \$500, 4 per cent .....	\$ 500 00		
1 City of Salem coupon bond, \$1,000, 5 per cent....	1,000 00		
1 City of Lynn coupon bond, \$1,000, 5 per cent.....	1,000 00		
1 City of Lowell registered bond, \$210.29, 3½ per cent .....	210 29		
12 City of Taunton coupon bonds, \$1,000, 4 per cent .....	12,000 00		
2 Town of Bradford, registered bonds, \$500, 4 per cent .....	1,000 00		
2 City of Portsmouth coupon bonds, \$1,000 4 per cent .....	2,000 00		
4 City of Indianapolis, Ind., coupon bonds, \$1,000, 4 per cent.....	4,000 00		
4 Fitchburg R. R. coupon bonds, \$1,000, 4 per cent .....	4,000 00		
1 C. B. & Q. R. R. Neb. Ext. coupon bonds, \$1,000, 4 per cent....	1,000 00		
7 Illinois Central Cairo Bridge coupon bonds, \$1,000, 4 per cent.....	7,000 00		
Cash on deposit in Appleton National Bank, 3¾ per cent .....			\$ 33,710 29 724 07 \$ 34,434 36

	SECURITIES.	CASH.	TOTAL.
<b>Extension of Rogers Fort Hill Park Loan Sinking Fund.</b>			
On hand Jan. 1, 1900 .....	\$ 28,000 00	\$ 9,325 05	\$ 37,325 05
Received during 1900:			
Cash—Annual Appropriation .....		6,000 00	
Income on Investments .....		1,120 00	
Income on Bank Deposits.....		335 59	
Securities bought in 1900 .....	11,000 00		
Paid for securities, 1900.....	\$ 39,000 00	\$ 16,780 64 15,694 56	
On hand Jan. 1, 1901 .....	39,000 00	\$ 1,086 08	40,086 08
Increase during 1900.....			\$ 2,761 03
Securities belonging to this fund.....			
5 Town of Danvers coupon bonds, \$1,000, 4 per cent .....	\$ 5,000 00		
1 City of Brockton registered bond, \$1,000, 4 per cent .....	1,000 00		
1 City of Lynn registered bond, \$5,000, 4 per cent.	5,000 00		
6 City of Malden coupon bonds, \$1,000, 4 per cent.	6,000 00		
6 City of Indianapolis coupon bonds, \$1,000, 4 per cent .....	6,000 00		
1 City of Saginaw coupon bond, \$1,000, 4 per cent.	1,000 00		
4 C. B. & Q. R. R. Neb. Ext. coupon bonds, \$1,000, 4 per cent .....	4,000 00		
11 Winona & St. Peter R. R. coupon bonds, \$1,000, 7 per cent .....	11,000 00		\$ 39,000 00
Cash on deposit Appleton in National Bank 3½ per cent .....			\$ 39,000 00
			1,086 08
			\$ 40,086.08

	SECURITIES.	CASH.	TOTAL.
<b>City Hall and Memorial Building Sinking Fund.</b>			
On hand Jan. 1, 1900 .....	\$ 90,000 00	\$ 12,542 12	\$ 102,542 12
Received during 1900:			
Cash—Annual Appropriation .....		7,500 00	
Income on Investments .....		3,841 00	
Income on bank deposits .....		416 72	
Securities matured. ....		2,000 00	
Securities bought during 1900 ..	21,000 00		
	\$ 111,000 00	\$ 26,299 84	
Paid during 1900 for securities .....		23,521 61	
On hand Jan. 1, 1901 .....	109,000 00	\$ 2,778 23	\$ 111,778 23
Increase during 1900. ....			\$ 9,236 11
Securities belonging to this fund.			
12 Town of Bradford, Mass., coupon bonds, \$1,000, 4 per cent .....	\$ 12,000 00		
5 City of Brockton coupon bonds, \$1,000, 4 per cent .....	5,000 00		
1 Town of Reading coupon bonds, \$1,000, 4 per cent .....	1,000 00		
6 Town of Wrentham coupon bonds \$1,000, 4 per cent .....	6,000 00		
9 Town of Arlington coupon bonds, \$1,000, 4 per cent .....	9,000 00		
1 City of Boston registered bond, \$21,000 4 per cent .....	21,000 00		
7 City of Portsmouth coupon bonds, \$1,000, 4 per cent .....	7,000 00		
8 Town of Stoughton coupon bonds, \$1,000, 4 per cent .....	8,000 00		
4 City of Saginaw, Mich., coupon bonds, \$1,000, 4 per cent .....	4,000 00		
1 City of Brockton registered bond, \$1,000, 4 per cent .....	1,000 00		
3 City of Saginaw, Mich., coupon bond, \$1,000, 4 per cent .....	3,000 00		
6 Fitchburg R. R. coupon bond, \$1,000, 4 per cent .....	6,000 00		
5 C. B. & Q. R. R. Neb. Ext. coupon bond, \$1,000, 4 per cent .....	5,000 00		
19 Illinois Central Cairo Bridge coupon bonds, \$1,000, 4 per cent .....	19,000 00		
2 Milwaukee & Lake Shore R. R. coupon bonds, \$1,000 4 per cent .....	2,000 00		\$ 109,000 00
			\$ 109,000 00
Cash on deposit in Appleton National Bank, 3½ per cent. ....			2,778 23
			\$ 111,778 23

	SECURITIES.	CASH.	TOTAL.
<b>New School Houses Sinking Fund.</b>			
On hand Jan. 1, 1900.....	\$ 6,000 00	\$ 5,776 25	\$ 11,776 25
Received during 1900:			
Cash—Annual appropriation.....		4,000 00	
Income on investments.....		340 00	
Income on bank deposits.....		170 06	
Securities bought in 1900.....	7,000 00		
	\$ 13,000 00	\$ 10,286 31	
Paid for securities in 1900.....		8,449 39	
On hand Jan. 1, 1901.....	\$ 13,000 00	\$ 1,836 92	\$ 14,836 92
Increase during 1900.....			\$ 3,060 67
Securities belonging to this fund:			
3 City of Indianapolis coupon bonds, \$1,000, 4 per cent.....	\$ 3,000 00		
3 C. B. & Q. R. R., Neb. Ext., coupon bonds, \$1,000, 4 per cent.....	3,000 00		
5 Illinois Central, Cairo Bridge, coupon bonds \$1,000, 4 per cent.....	5,000 00		
2 Winona & St. Peter R. R. coupon bonds, \$1,000, 7 per cent.....	2,000 00		\$ 13,000 00
Cash on deposit in Appleton National Bank, $3\frac{3}{8}$ per cent.....			1,836 92
			\$ 14,836 92



	SECURITIES.	CASH.	TOTAL.
<b>Hapgood Wright Centennial Trust Fund.</b>			
On hand Jan. 1, 1900.....		\$ 2,699 00	\$ 2,699 00
Received during 1900:			
Cash—Interest on bank deposits.....		107 92	
On hand Jan. 1, 1901.....		\$ 2,806 92	2,806 92
Increase during 1900.....			\$ 107 92
Securities belonging to this fund:			
Cash—Deposited in Lowell Institution for Savings.....	\$ 579 33		
Cash—Deposited in City Institution for Savings.....	2,227 59		\$ 2,806 92
Total.....			\$ 2,806 92

Respectfully submitted,

AUSTIN K. CHADWICK,  
 FRED A. BUTTRICK,  
 CHARLES L. KNAPP,

*Commissioners of Sinking Funds for the City of Lowell for the year 1900.*

# STATEMENT OF CITY TREASURER RE- LATING TO SPECIAL FUNDS FOR CARE OF PUBLIC BURIAL GROUNDS.

LOWELL, MASS., January 1, 1901.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF  
LOWELL:

*Gentlemen:*—I have the honor to submit the following statement of special funds in my hands, deposited for perpetual care of lots in the public burial grounds of the City of Lowell:

On hand Jan. 1, 1900 .....	\$ 12,950 00
Received during the year:	
From Wm. O. Chapman, Ex. Est.	
Samuel F. Bicknell .....	100 00
Mrs. Eliza A. Shorey .....	100 00
Mary T. Hart .....	100 00
Mary A. Flick .....	100 00
Martha B. Stanton .....	100 00
Orra A. Fletcher .....	100 00
Hugh Scott .....	200 00
May F. Wilkins .....	100 00
Ella L. Blake, Adm. B. M.	
Blake .....	100 00
Ann Roper .....	100 00
Orrin B. Ranlett .....	100 00
Amount carried forward .....	\$ 14,150 00

Amount brought forward.....	\$14,150 00
From Mary E. Gilson and Lucy C. Nichols .....	100 00
Eliza Johnston.....	200 00
Edwin Cope.....	100 00
Dr. Frank E. Kittredge ..	100 00
Rosella A. Coburn and Marcena A. Whitehorn	100 00
Jennie P. Bell .....	100 00
Henry E. Parker.....	100 00
Mary A. McIntyre.....	100 00
Elizabeth Davis.....	100 00
C. O. Hall, for Irene B. Davis .....	100 00
Richard Dobbins, for Delia Gilchrist Est.....	100 00
Fannie P. Shepard .....	100 00
Mary L. Mansur .....	100 00
Betsey Rothwell.....	100 00
Harriet E. Wotton.....	200 00
James Deering .....	100 00
Mrs. W. H. Harris .....	100 00
Nancy E. Capen .....	100 00
William L. Swett .....	100 00
Will H. Howe .....	100 00
Francis H. McCleary .....	100 00
John Davis, Exr. Est. David Harding.....	200 00
	<hr/>
	<u>\$16,650 00</u>

The above amount is invested  
as follows:

Central Savings Bank .....	\$ 2,400 00
City Institution for Savings .....	2,150 00
Traders National Bank .....	2,050 00
Lowell Five Cent Savings Bank..	2,500 00
Washington Institution for Sav- ings .....	2,800 00
Lowell Institution for Savings ...	2,100 00
Mechanics Savings Bank .....	2,650 00
	<hr/>
	<u>\$16,650 00</u>

Respectfully submitted,

ANDREW G. STILES,

*City Treasurer.*



## INDEX.

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Abatement of Taxes .....	21
Abolition of Grade Crossings .....	262
Assessors, Salaries .....	22
Assessors, Sundries .....	24
Auditor, Salaries .....	26
Auditor, Sundries .....	27
Award to Jennie W. Mack .....	261
Care of City Hall, Labor .....	29
Care of City Hall, Police Officer .....	29
Care of City Hall, Sundries .....	30
Carney Medal Fund .....	264
Carter Street School House .....	192
City Cemeteries, Labor .....	33
City Cemeteries, Sundries .....	37
City Cemeteries, New Fence .....	34
City Cemeteries, Painting Fence .....	35
City Cemeteries, Repairing Wall, School Street Cemetery .....	36
City Clerk, Salaries .....	41
City Clerk, Sundries .....	42
City Debt .....	265
City Messenger, Salary .....	45
City Messenger, Carriage Hire .....	46
City Messenger, Sundries .....	47
City Scales .....	49
City Sealer .....	50
City Treasurer, Salaries .....	51
City Treasurer, Sundries .....	52
Clerk Common Council .....	55
Commons, Salaries and Labor .....	56
Commons, Repairing Walks .....	57
Commons, Sundries .....	58
Corporation Tax .....	267

Corporation Tax Fund.....	268
Cost of Sewers Laid in 1900.....	307
County Tax.....	297
Driven Wells.....	256
Due from the City on Water Debt.....	291
Due from the City on Ordinary City Debt.....	297
Elections.....	64
Engineering.....	70
Extension of Aiken Street.....	229
Extension of Fort Hill Park.....	63
Extension of Lundberg Street.....	230
Fish Warden.....	83
Fire Department, Salaries.....	73
Fire Department, Sundries.....	74
Fourth of July.....	270
General Treasury Fund, Loans.....	303
General Treasury Fund, Ordinary.....	304
General Treasury Fund, Taxes.....	302
Grade Crossings.....	263
Health Department, Office, Salaries.....	84
Health Department, Office, Sundries.....	85
Health Department, Yard, Labor.....	89
Health Department, Yard, Sundries.....	90
Heating City Hall and Memorial Building, Labor....	97
Heating City Hall and Memorial Building, Fuel.....	98
Heating City Hall and Memorial Building, Sundries..	99
High School Annex.....	189
Huntington Hall, Re-building.....	101
Huntington Hall, Maintenance.....	104
Improvement of Annex to Edson Cemetery.....	40
Improvement of Gorham Street Engine House.....	289
Incidentals.....	106
Indexes, City Clerk's Office.....	110
Inspector of Animals, Provisions, Etc.....	111
Inspector of Milk, Vinegar, Etc., Salaries.....	116
Inspector of Milk, Vinegar, Etc., Sundries.....	117
Inspector of Wires, Salaries.....	112
Inspector of Wires, Expense of Team.....	113
Inspector of Wires, Sundries.....	114
Interest.....	274
Labor Day.....	276
Law Department, Salaries.....	119
Law Department, Sundries.....	120
Library.....	279
Liquor Licenses.....	126
Lighting, Labor.....	122
Lighting, Sundries.....	123



Location of Water Tower.....	286
Lowell Textile School.....	278
Mayor's Department.....	127
Memorial Building.....	281
Military Aid.....	129
National Bank Tax.....	298
Pauper Department, Almshouse.....	130
Pauper Department, Out Door Relief.....	138
Paving Jackson Street.....	226
Paving Mammoth Road, Suffolk Street, and Grading and Paving Bridge Street.....	225
Paving Market Street.....	227
Pevey Brothers' Claim.....	282
Placing Wires of Police Department Underground..	155
Placing Wires of Fire Department Underground....	82
Police Department, Salaries and Labor.....	147
Police Department, Sundries.....	149
Public Buildings, Salaries.....	156
Public Buildings, Labor.....	157
Public Buildings, Sundries.....	158
Pound Keeper.....	163
Reception to Hon. Charles H. Allen.....	283
Report of the City Treasurer and Collector of Taxes	309
Report of the Commissioners of Sinking Funds.....	318
Rifle Range, Janitor.....	164
Rifle Range, Painting, Etc.....	165
Rifle Range, Trap Doors, Grading, Sundries.....	166
School Department.....	167
School Houses, Labor, including Clerk.....	181
School Houses, Janitor.....	182
School Houses, Kalsomining.....	183
School Houses, Sanitarries, Franklin and Central Street Schools.....	184
School Houses, Sundries.....	185
Sewer Construction.....	193
Sewer Maintenance, Labor.....	197
Sewer Maintenance, Inspector.....	198
Sewer Maintenance, Timekeeper.....	199
Sewer Maintenance, Sundries.....	200
Sewer in Willard and Humphrey Streets.....	204
Sinking Funds.....	287
Soldiers Relief.....	231
Soldiers' and Sailors' Memorial Tablets.....	234
State Aid.....	235
State Aid, Office Expenses.....	236
State Tax.....	296

Statement of the City Treasurer Relating to Special Funds for Burial Grounds.....	328
Streets, Engineering.....	212
Streets, Fuel, Hay, Grain, Etc.....	207
Streets, Horses, Carriages, Etc.....	213
Streets, Land Damages.....	211
Streets, Lumber, Hardware, Brick, Etc.....	209
Streets, Salaries and Labor.....	206
Streets, Trap Rock.....	215
Streets, Edgestones.....	216
Streets, Sidewalks.....	217
Streets, Painting Aiken Street Bridge.....	218
Streets, Sundries.....	219
Supply Department, Purchasing Agent.....	238
Supply Department, Typewriter.....	239
Supply Department, Inspector.....	240
Supply Department, Clerk.....	241
Supply Department, Sundries.....	242
Taxes.....	306
Temporary Loans.....	285
Watering Streets, Labor.....	244
Watering Streets, Sundries.....	245
Water Works.....	247
1899 Bills.....	299















TWENTY-EIGHTH  
ANNUAL REPORT  
OF THE  
LOWELL WATER BOARD  
TO THE  
City Council of the City of Lowell, Mass.,  
AND THE  
REPORTS OF THE SUPERINTENDENT OF WATER WORKS AND OF  
THE CITY ENGINEER TO THE WATER BOARD FOR 1900.



LOWELL, MASS.:  
F. A. M. TOBIN'S PRINTERY.  
1901.



# WATER DEPARTMENT, 1900.

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## WATER BOARD.

FRANK L. WEAVER, President.

Term expires second Monday in March, 1904.

MICHAEL J. DOWD,

Term expires second Monday in March, 1901.

AUGUST FELS,

Term expires second Monday in March, 1902.

HERBERT C. TAFT.

Term expires second Monday in March, 1903.

J. W. CRAWFORD, Secretary and Clerk.

---

ROBERT J. THOMAS, Superintendent.

GEORGE BOWERS, City Engineer.

---

D. B. H. BARTLETT, Engineer.

WILLIAM JOYCE, Asst. Foreman.

THOMAS McLOUGHLIN, Engineer.

JOHN E. LOWNY, Meters.

JOHN B. HENRY, Keeper Reservoir.

ALBERT HALLOWELL, Foreman Shop.

THOMAS F. DOYLE, Foreman.

A. F. COGER, Hydrants and Gates.

THOMAS ROGERS, Services.

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## OFFICE.

GEO. E. WORTHEN, Service Clerk.

GERTRUDE W. BYAM, Bookkeeper.

JULIA A. RAFTER, Asst. Bookkeeper.

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## INSPECTORS.

ROBERT GARDNER, JR.

MICHAEL H. MCCUE.

FREDERICK A. BARON.

GEORGE F. TILTON.

WALTER P. WILEY.





# REPORT OF THE WATER BOARD.

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OFFICE OF THE WATER BOARD,

CITY HALL,

LOWELL, MASS., Jan. 1st, 1901.

*To His Honor the Mayor and the City Council of  
the City of Lowell.*

Herewith is presented the twenty-eighth annual report of the Water Board, for the year ending December 31, 1900.

The membership of the Board remained the same as the previous year, Mr. Weaver being re-elected for another term by the City Council, and also re-elected President of the Water Board for the fourth time.

Dr. Harrington's report upon his analysis of the city water was received in February, and, as was expected, confirmed the findings of the State Board of Health. Two hundred samples of water from all sections of the city and under various conditions were sent him and his report is exhaustive and complete. In it he says: "Reverting to the questions involved in the investigation, the first to be considered is whether or not Lowell water exerts an unusual corrosive action on lead pipe. The

subject of the corrosive action of water on lead pipe has nowhere and by nobody been more extensively or more thoroughly studied than in Massachusetts by the State Board of Health. From their report it appears that in four places in the State, viz.: Lowell, Milford, Kingston and Fairhaven, a large amount of lead poisoning has been reported and that interviews with physicians in the towns and cities where series of samples have been taken fail to show a prevalence of lead poisoning in any except the four places mentioned above."

The following table compiled from the published reports shows first the amounts of lead in the samples from the four places mentioned, and next in those from other places where lead poisoning is not prevalent. In the latter group are included only those supplies which exert a corrosive action equal or superior to that of the Boulevard water:

### AVERAGES.

Places.	Standing.	Ordinary Use.
Lowell .....	.1933	.1899
Milford.....	.1991	.1258
Kingston.. ...	.1962	.0944
Fairhaven .....	.2461	.0959
Stoughton.....	.2178	.0774
Chicopee (Abbe). ....	.3921	.0788
Chicopee (Cooley).....	.1037	.0409
Boston ....	.1778	.0099
North Easton.....	.1667	.0414
New Bedford.....	.1466	.0177
Ashburnham.....	.1210	.0307

South Hadley . . . . .	.1194	.0385
Lawrence . . . . .	.1094	.0276
Rockland . . . . .	.1057	.0283
Malden . . . . .	.1056	.0309
Palmer . . . . .	.0829	.0511

"In comparison it appears that the Boulevard water on standing in lead pipes takes up less lead than the waters of the three other places, Milford, Kingston and Fairhaven where poisoning is common and less also than those of Stoughton, Chicopee, Boston, North Easton, New Bedford, Ashburnham, South Hadley, Lawrence, Rockland and Malden in which places lead poisoning is not prevalent. It also shows that the Cook water is more corrosive than that of any of the places where lead poisoning is common."

### SUMMARY OF AVERAGE RESULTS.

#### Boulevard.

Standing . . . . .	445 samples	0.1029
Running . . . . .	16 "	0.0179
Ordinary use . . . . .	18 "	0.0440

#### Cook.

Standing . . . . .	35 "	0.4273
Running . . . . .	39 "	0.0747
Ordinary use . . . . .	13 "	0.2689

"Coming now to the question: 'Does Lowell water contain an amount of lead dangerous to health?' In attempting to set up a standard in such matters we must be guided by experience, not by arbitrary rules. Fortu-

nately, as we have seen, we have facts before us of the greatest value. We know that in certain towns large numbers of cases of lead poisoning have occurred in consequence of drinking water having a marked corrosive action on lead pipe. We know furthermore, that in certain other towns with water supplies that exert a less marked but yet considerable action on lead, no trouble is experienced."

"The Cook water contains a dangerous amount of lead, even under conditions of ordinary use."

"All things considered, I feel that the best solution of the difficulty is the abandonment of the Cook and Hydraulic wells. In order to make up for the deficiency in supply which this course would entail, I recommend the extension of the Boulevard plant, if it be possible, rather than the installation of another elsewhere, and also in preference to undertaking sand filtration of the water of the Merrimack River. The Boulevard supply is of excellent quality and has no more action on lead than the Merrimack water at Lawrence, where, so far as is known, no trouble on the score of lead poisoning exists. I further recommend that though for ordinary purposes the Cook supply be abandoned, the plant be maintained for use in cases of emergency. Should, for example, an accident occur at the Boulevard plant, the Cook supply could be brought into temporary use pending repairs; for it is not the occasional but the continuous use of water containing lead that produces untoward results."

The driving of test wells in the valley of Beaver Brook near the New Hampshire line indicated conditions favorable for obtaining a large quantity of water from the

ground at this place, but the report of the analysis of the water by the State Board of Health state that, "The tests as a whole are somewhat unfavorable with respect to the quantity of carbonic acid present and indicate that the water might have serious action upon lead pipes. Further and more thorough tests might show a considerably different result." But it being essential that additional water be procured with as little delay as possible operations were transferred to the Boulevard and, on January 24th, a committee reported the estimated cost of fifty-four additional wells at the Boulevard on land owned by the city would be \$6,405.00 and the Superintendent was directed to proceed at once to procure the material and go on with the work; and we were thus able in May to connect these additional wells to the pumps at Station No. 4 and increase our available supply at this Station by two million gallons. But as the capacity of the pumps at this Station are but slightly in excess of six million gallons, it was necessary to install another engine to get the benefit of the additional quantity of water. Contracts were accordingly made with the Knowles Pump Works for a new 3,000,000 gallon pump, with Scannell & Wholey, for two new boilers and with P. Conlon for enlarging the Station for these improvements. The work was all finished in due season, but owing to delay in procuring some of the fittings necessary, we have been unable to start pumping.

It then became necessary to cross the Boulevard if more wells were to be put down, and to purchase land for that purpose, and the owner of the "Cushing Farm," so called, was communicated with and also it was determined to ask the City Council to authorize a loan of



\$75,000.00 for the purpose of additional wells. The "Cushing Farm" was purchased after thorough tests had been made on the land to indicate a sufficient quantity of water and which the State Board of Health pronounced satisfactory in quality. But to preserve the water from possible contamination it was deemed advisable to buy all the land west of the terminus of Pawtucket Boulevard as far as the Cushing land adjoining Tyngsboro Boulevard and extending back about 750 feet. Part of this land had been laid out in streets and divided into lots and was owned by many different people widely separated, so we employed Mr. H. W. J. Howe, as agent, to purchase the land, limiting him to a price of two cents per foot, the land being assessed at one cent per foot, and Mr. Howe did his work so expeditiously and thoroughly that all the land has been purchased without recourse to legal proceedings.

Following is a list of the lots purchased, amounting to about fifty-nine acres:—

George W. Cushing .....	35 1-2 acres
W. T. S. Bartlett.....	4,114 feet
S. K. Chase.....	20,076 "
Mary L. Clement.....	10,192 "
William H. Dane.....	5,809 "
Alfred Desjardins.....	17,756 "
Willis E. Dodge.....	8,929 "
Sarah A. Hallett.....	5,000 "
James W. Halstead.....	5,000 "
Benjamin Hodgman.....	5,640 "
Margaret Marley. ....	14,740 "
Thomas McPhail.....	6,408 "



John O'Rourke.....	26,544	feet
Electa R. Spray.....	19,854	"
Angie C. Brewer.....	14,000	"
Harley J. Currier.....	9,823	"
Sarah Curry.....	5,821	"
Peter A. Fay.....	5,000	"
John Fitzsimmons.....	5,132	"
Vira M. Floyd.....	14,010	"
D. F. Gateley.....	10,771	"
Leroy E. Howlitt.....	4,623	"
William D. Large.....	5,758	"
Adeline Marchand.....	5,077	"
James T. O'Hearn.....	8,737	"
Amasa Pratt.....	5,201	"
Elizabeth L. Priestly.....	5,000	"
William Smith.....	7,395	"
George F. Stiles.....	11,010	"
Ella F. Taylor.....	10,528	"
Augustus Work.....	10,270	"
George W. Bagley.....	11,507	"
Hannah J. Belisle.....	15,380	"
Marie Bissonnette.....	5,000	"
David Chase.....	14,713	"
Philip Cinqmars.....	10,484	"
Samuel Cinqmars.....	30,532	"
Anna K. Coburn.....	10,095	"
Carrie E. Farrar.....	5,000	"
Georgianna Fontaine.....	5,000	"
Edward S. Howe.....	354,763	"
Annette McKissock.....	5,000	"
Julia Prevost.....	10,000	"

E. H. Choquette.....	9,598	"
J. A. Choquette.....	4,520	"
Mary J. Collins .....	7,860	"
Edmund Gaudette....	16,349	"
T. J. Underwood.....	219,795	"
Mary Quinn.....	4,792	"

Somewhat more land was purchased than the original estimate provided for, but it was deemed advisable to do so to prevent possible contamination in the future. The work on the Well plant is progressing and it is expected that by summer sufficient water will be available at the Boulevard to supply the needs of the whole city. The loan of \$75,000.00 became available in August and there has been expended \$62,403.24, leaving a balance of \$12,596.76, December 31st.

The finances of the Water Works proper show a gratifying result of efforts toward economy of management, and although the expenditures of \$202,634.80 is slightly in excess of last year, it must be borne in mind that \$6,000.00 of that amount was for the driven wells; also the price of coal was \$1.12 per ton more than the previous year, viz., \$4.90 against \$3.78 1-2. When bids for coal were called for in June, the lowest price named was \$4.90 per ton for all delivered previous to September, 15th; later deliveries to be \$5.15 and \$5.40 per ton. As the capacity of our bins is not sufficient to take 5,000 tons, the contract was made to cover the time until January 1st, 1901, at the lowest price. Four thousand six hundred tons were put in at this price, an excess in price over last year of over \$5,000.00; about 3500 tons remain on hand January 1st, 1901.

The balance of the year increased....	\$7,515 06
Charges for water increased.....	9,394 70
Receipts increased . . . . .	7,726 84

Criticism is made because the Water Department should carry over so apparently large a balance each year, but it should be borne in mind that the bills are all collected in December and not much comes in until May when the bills for the ensuing year are sent out: in the meantime expenses continue, including \$20,000.00 for interest on bonds and this balance is reduced to \$7,000.00 or \$8,000.00 and has been reduced to as low as \$2,500.00. Consequently, this balance precludes the necessity of borrowing money in anticipation of water rates as has to be done for the other city uses in anticipation of taxes.

The members of the Board are steadfast in their belief in the necessity of the installing of water meters to stop the waste of water.

It costs too much for the city to furnish water for it to be run to waste. When the city procured its supply from the river, the question of a waste of water was not of so much importance except in the increased cost of the unnecessary pumpage. With the introduction of driven wells yielding a limited supply, the necessity of guarding against waste becomes imperative. About 51 1-2 per cent. of the taps are metered and these taps use about one-fourth of the total water consumed. It would seem that if the remaining 48 1-2 per cent. of the taps were metered there would be great saving of the water. By so doing, the present supply will doubtless be sufficient for a great many years. But if the present extravagant waste of water

is permitted the city will be obliged to procure a new supply at great expense.

The Board has therefore determined to make a start in this direction. They have caused to be prepared a list of places where they believe that there is a great waste of water and will put meters on them at once, and hope that if this policy is continued, every service in the city will be metered and our present supply will be ample without stinting the proper use of water in any manner.

FRANK L. WEAVER,  
AUGUST FELS,  
MICHAEL J. DOWD,  
HERBERT C. TAFT.

LOWELL WATER WORKS OFFICE,

January 1, 1901.

TO THE LOWELL WATER BOARD:

Gentlemen,—Herewith I submit figures detailing the finances of the Lowell Water Works for the year ending December 31st, 1900.

J. W. CRAWFORD,

Clerk.

TABLE I.  
FINANCIAL STATEMENT—LOWELL WATER WORKS, 1900.

CHARGES.						RECEIPTS.			
Water.			Other than Water.	Total Charges 1900.	Total Charges 1899.	By Accounts.			
Rate.	Metered.	Total.				Receipts.	Discounts.	Abatments	Due.
Transfer . . . . .	-	-	-	\$31,767 42	\$44,382 22	\$27,070 79	\$2,693 64	\$ 374 12	\$1,628 87
January . . . . .	-	-	-	\$ 526 58	4,172 40	522 80	3 78	-	-
February . . . . .	-	-	-	-	768 90	-	-	-	-
March . . . . .	\$70,586 82	\$28,659 49	\$99,246 31	99,246 31	102,799 95	87,203 60	9,909 66	2,023 90	109 15
April . . . . .	1,135 15	-	1,135 15	3,424 17	1,712 54	3,065 87	111 92	60 76	185 62
May . . . . .	1,268 72	-	1,268 72	2,997 66	4 487 70	2,704 24	120 68	43 97	128 77
June . . . . .	1,393 44	46,814 67	48,208 11	49,378 08	45,600 23	44,135 98	4,794 39	117 66	330 05
July . . . . .	248 48	-	248 48	1,708 15	2,326 69	1,525 73	27 80	13 85	140 77
August . . . . .	512 68	-	512 68	2,018 41	2,464 72	1,755 80	33 04	37 01	192 56
September . . . . .	190 32	36,921 57	37,111 89	38,034 72	33,269 94	33,821 99	3,690 09	107 34	415 30
October . . . . .	110 52	60 84	171 36	1,692 56	1,805 12	1,121 53	15 30	4 61	551 12
November . . . . .	172 42	19 60	192 02	1,188 86	775 58	284 31	92	95 74	807 89
December . . . . .	235 04	30,069 50	30,304 55	37,150 07	27,729 23	6,937 29	62 96	-	30,149 82
Totals . . . . .	\$75,853 59	\$142,545 67	\$218,399 26	\$269,137 99	\$272,295 22	\$210,149 93	\$21,404 18	\$2,878 96	\$34,639 92



TABLE II. FINANCIAL STATEMENT—LOWELL WATER WORKS, 1900.

OUTGO.

	Pay Roll and Salaries.	Water Works Supplies.	Interest and Principal	Refunds and Va- cancies.	General Expense Account.	Stable Depart- ment.	FUEL.	Totals.	
								1900.	1899.
January . .	\$4,306 50	\$1,497 07	\$ 600 00	\$ 40 23	\$ 653 86	\$ 179 96	\$3,102 82	\$10,380 24	\$ 5,700 32
February . .	4,070 91	2,014 49	7,917 50	8 00	257 43	333 88	312 34	14,914 55	12,908 85
March . .	4,794 51	999 38	240 00	88 94	195 72	27 84	204 04	6,550 43	5,955 53
April . .	5,205 96	4,966 49	100 00	30 18	2,245 36	267 17	1,267 45	14,082 61	10,715 34
May . .	5,373 22	2,645 51	18,976 00	1,033 77	477 62	93 81	5,106 93	33,706 86	45,233 15
June . .	6,543 40	1,438 86	1,660 00	85 28	185 60	89 12	2,139 84	12,092 10	13,025 49
July . .	4,754 31	797 70	10,100 00	94 80	175 21	486 32	-	16,418 34	22,462 59
August . .	4,585 36	1,664 49	1,757 50	153 35	159 40	41 33	7,242 00	15,603 43	13,305 00
September . .	5,470 37	1,194 50	120 00	55 78	214 10	46 99	1,743 97	8,845 71	13,104 91
October . .	4,669 89	1,376 75	5,960 00	94 84	64 11	76 47	5,183 47	17,425 53	8,123 29
November . .	4,730 22	1,052 29	29,816 00	12 90	353 73	60 79	5,247 48	41,273 41	34,949 52
December . .	4,999 77	1,453 35	2,160 00	116 25	278 94	116 03	2,217 25	11,341 59	16,468 79
Totals . .	\$59,514 42	\$21,100 88	\$79,407 00	\$1,764 32	\$5,260 88	\$1,819 71	\$33,707 59	\$202,634 80	\$202,012 78

TABLE III.

## FINANCIAL STATEMENT—LOWELL WATER WORKS, 1900.

## Subdivision of "Other Than Water Charges" From Table 1.

	Meters Sold.	Expense Setting Meters.	Meter Repairs.	New Services.	Changed Services.	Labor and Material.	Building Charges.	Shut-off Fines.	Sewer Flushing.	Interest.	Totals.	
											1900.	1899.
January . .	\$ 236 00	\$ 26 10	\$ 69 13	\$ 59 08	\$ 5 45	\$ 93 02	\$37 80	-	-	-	\$ 526 58	\$3,985 98
February . .	-	-	-	-	-	-	-	-	-	-	-	516 12
March . .	-	-	-	-	-	-	-	-	-	-	-	-
April . .	1,230 70	163 44	158 88	124 90	30 38	535 88	30 84	\$10 00	\$ 4 00	-	2,289 02	1,712 54
May . .	1,151 00	141 61	29 29	92 48	6 05	281 09	3 42	12 00	12 00	-	1,728 94	1,811 08
June . .	597 00	88 73	54 39	160 85	236 59	18 29	12 12	2 00	-	-	1,169 97	2,870 10
July . .	509 00	77 62	95 23	61 30	18 45	632 39	43 68	22 00	-	-	1,459 67	1,861 52
August . .	560 00	77 64	34 60	159 44	26 25	627 66	10 14	6 00	4 00	-	1,505 73	1,917 99
September . .	193 00	27 64	47 11	111 55	40 25	476 94	14 34	8 00	4 00	-	922 83	1,369 77
October . .	373 00	50 72	68 44	68 68	24 05	567 39	22 14	-	-	\$276 78	1,521 20	1,453 47
November . .	250 00	25 07	35 90	195 88	6 95	469 54	7 50	-	6 00	-	996 84	666 88
December . .	164 00	21 59	30 48	144 60	18 55	6,422 07	30 24	6 00	8 00	-	6,845 53	741 54
Totals . .	\$5,263 70	\$700 16	\$623 45	\$1,178 76	\$482 97	\$10,124 27	\$212 22	\$66 00	\$38 00	\$276 78	\$18,966 31	\$18,906 99

TABLE IV.

## FINANCIAL STATEMENT—LOWELL WATER WORKS, 1900.

## Subdivision of "Pay Roll and Salaries" From Table No. 2.

	Salaries and Pay Roll.	Office and Inspectors.	Meter Work.	Extension and Construction.	Engineering.	Pumping Stations.				Maintenance.	Relaid Services.	New Services.	Re-charged Sundry Persons.	Totals.	
						Station 1.	Station 2.	Station 3.	Station 4.					1900.	1899.
January .	\$183 33	\$641 91	\$187 38	\$292 06	\$220 24	\$502 66	\$435 24	\$141 89	\$339 89	\$1,209 40	\$ 7 25	\$ 35 25	-	\$4,306 50	\$3,846 48
February.	183 34	639 72	144 00	151 20	114 75	575 35	434 36	67 00	391 75	1,349 44	-	-	-	4,070 91	4,065 04
March . .	183 33	830 41	218 63	269 50	84 00	659 15	543 82	78 75	468 50	1,434 42	4 00	-	-	4,794 51	3,888 65
April . .	183 33	667 40	107 50	1,376 69	99 00	513 22	459 11	-	367 42	1,299 79	37 63	94 87	-	5,205 96	5,372 05
May . .	183 34	667 40	215 00	1,306 36	115 50	581 22	441 36	-	363 50	1,378 87	46 79	50 63	\$ 27 25	5,373 22	5,126 53
June . .	183 33	834 25	252 66	816 91	84 00	717 41	612 95	-	457 54	2,226 03	31 41	190 86	136 05	6,543 40	5,380 90
July . .	183 33	667 40	201 88	432 82	85 25	615 00	449 36	-	365 12	1,553 94	20 94	85 99	103 28	4,764 31	6,600 76
August .	183 34	667 40	213 75	339 56	117 00	600 88	431 80	2 25	396 73	1,301 07	54 87	74 13	202 58	4,585 36	5,067 15
September	183 33	834 25	222 47	323 34	130 75	766 15	547 47	-	454 26	1,601 48	24 00	124 75	258 12	5,470 37	5,818 21
October .	183 33	667 40	204 88	187 98	128 75	561 72	434 61	19 00	365 26	1,649 16	39 25	76 00	146 55	4,669 89	4,743 35
November	183 34	667 40	215 75	742 09	-	498 97	497 36	-	375 23	1,335 79	25 00	170 53	18 76	4,730 22	4,597 01
December	183 33	878 44	167 00	404 66	112 63	804 35	511 63	-	488 91	1,294 09	-	131 11	23 57	4,999 77	5,457 17
Totals .	\$2,200 00	\$8,683 38	\$2,350 90	\$6,643 17	\$1,291 87	\$7,396 08	\$5,799 12	\$308 89	\$4,854 11	\$17,743 48	\$291 14	\$1,034 12	\$916 16	\$59,514 42	\$59,963 30

TABLE V.

FINANCIAL STATEMENT — LOWELL WATER WORKS, 1900.

***SUBDIVISION "WATER WORKS SUPPLIES" FROM TABLE 2.***

Pumping Station No. 1, Supplies.....	\$ 1,515 05
Pumping Station No. 2, Supplies.....	808 73
Pumping Station No. 3, Supplies.....	8 24
Pumping Station No. 4, Supplies... ..	287 74
Iron pipe and specials.....	757 52
Hydrants and gates.....	1,088 14
Service pipe.....	2,287 12
Meters .....	5,081 64
Sidewalk boxes.....	691 50
Machinery and tools .....	504 70
Brass castings.....	489 36
Reservoir .....	124 75
New wells. ....	5,092 90
Pig lead.....	94 73
Miscellaneous.....	2,268 76
	<hr/>
	\$21,100 88

TABLE VI. FINANCIAL STATEMENT — LOWELL WATER WORKS, 1900.  
Detail of "Principal and Interest" From Table No. 2.

	Amount of Debt Jan. 1, 1900.	Rate.	Interest Paid 1900.	Principal Paid 1900.	Amount of Debt Jan. 1, 1901.
WATER LOAN BONDS:	\$1,000,000 00	4	.....	.....	\$1,000,000 00
Coupon No. 16, Nov. 1, 1898.....	.....	....	\$ 200 00	.....	.....
Coupon No. 17, May 1, 1899.....	.....	....	300 00	.....	.....
Coupon No. 18, Nov 1, 1899.....	.....	....	680 00	.....	.....
Coupon No. 19, May 1, 1900.....	.....	....	19,960 00	.....	.....
Coupon No. 20, Nov. 1, 1900.....	.....	....	19,220 00	.....	.....
HIGH SERVICE LOAN, BONDS:	75,000 00	4	.....	.....	75,000 00
Coupon No. 37, May, 1890.....	.....	....	1,500 00	.....	.....
Coupon No. 38, Nov. 1890.....	.....	....	1,500 00	.....	.....
NOTES:	.....	....	.....	.....	.....
Lowell Institution for Savings.....	12,000 00	4	360 00	\$ 6,000 00	6,000 00
Lowell Institution for Savings.....	25,000 00	3 1-2	875 00	5,000 00	20,000 00
Lowell Institution for Savings.....	32,800 00	4	1,312 00	4,100 00	28,700 00
Lowell Institution for Savings.....	30,000 00	4	1,200 00	10,000 00	20,000 00
Commonwealth of Massachusetts.....	55,000 00	4	2,200 00	5,000 00	50,000 00
Sundry Persons.....	75,000 00	4	.....	.....	75,000 00
	\$1,229,800 00		\$49,307 00	\$30,100 00	\$1,274,700 00



## TABLE VII.

FINANCIAL STATEMENT — LOWELL WATER WORKS, 1900.

**MAINTENANCE AND CONSTRUCTION STATEMENT.**

## MAINTENANCE.

## Paid for Labor:

Salary President and Superintendent.....	\$2,200 00
Office and Inspectors.....	8,683 38
Pumping Stations.....	18,360 20
Meter Work .....	2,350 90
Engineering.....	1,291 87
General Maintenance .....	18,034 89

## Cost of Material:

Output as per Stock Book. ....	1,200 75
Interest .....	49,307 00
General Expense.....	5,260 88
Stable.....	1,819 71
Machinery and Tools.....	504 70
Pumping Station Supplies....	2,619 76
Coal.....	21,303 35

Total	<hr/> \$132,937 39
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## CONSTRUCTION.

## Paid for Labor:

Extension, Construction and New Services..	7,677 29
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## Cost of Material:

Output as per Stock Book .....	5,191 79
Payment on Loans.....	30,100 00

	<hr/> \$42,969 08
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## TABLE VIII.

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1900.

**DRIVEN WELLS ACCOUNT.**

Amount of Loan.....		\$75,000 00
Pay Roll....	\$ 7,553 56	
Alterations at Pumping Station		
No. 4 .....	2,062 15	
New Engine and Foundation....	1,615 11	
Iron Pipes, Gates, etc .....	15,278 55	
Miscellaneous .....	1,510 39	
Land. ....	28,278 26	
Paid Water Works Department.	6,105 22	
	<hr/>	62,403 24
Balance Dec. 31, 1900.....		<hr/> \$12,596 76



# Superintendent's Report.

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LOWELL, MASS., January 1, 1901.

*To the Lowell Water Board:—*

GENTLEMEN,—In compliance with the City Ordinances I herewith respectfully present to your Honorable Body the Annual Report of the Superintendent of Water Works upon the general condition of the works and the operation of the same for the year ending December 31, 1900.

Reference was made in my last report to the fact that at the close of the year 1899, in accordance with your vote and the recommendation of the State Board of Health, a test was begun of the Beaver Brook Valley for a water supply, by means of driven wells. After a careful observation of the topography of the territory adjacent to the brook in Dracut and Pelham, a site was finally selected near the State line dividing Massachusetts and New Hampshire and in the vicinity of the brook about two miles above Collinsville dam. According to every indication this was a most favorable place for the purpose. It comprised a large tract of upland meadow apparently free from stone and peat. Fourteen wells were driven at various points covering an area of about one square mile, some of which yielded abundantly. Samples of the water were, as you

know, collected, examined and analyzed by the State Board of Health. Their report showed more carbonic acid than was desirable and rather too much iron in some of the wells. In all other respects the water was very good. As the pipe used in making the wells was old, some of it having been in service at the Hydraulic Plant, it is probable that after more extensive pumping and cleaning of the wells other samples taken would have given more favorable results. Before anything could be done in this direction, however, pursuant to your instructions further experimenting there was abandoned and the men and tools transferred to the Boulevard Wells on January 22d. Since then all but three of the fourteen wells were pulled up; but for future reference, a plan was made showing where they were located, giving the capacity per minute of each well, with other pertinent data.

A few test wells on land owned by the Department between the Boulevard and river north of the present No. 4 Pumping Station demonstrated unmistakably the feasibility of extending the Boulevard well system, and as a consequence 52 2 1-2-inch wells were successfully connected in May, thereby increasing the total daily pumpage from 4,250,000 gallons to 6,250,000 that being the utmost capacity of the pumps at the Pumping Station. The still further extension of this plant which was authorized by the City Government in the passage of the \$75,000 loan last August, is now well under way. The enlargement of No. 4 Pumping Station which was also provided for in this loan is completed and the new three million pumping engine and the two new 54-inch x 16-foot boilers set in place ready for connecting. The greater part of the new

24-inch force main and about one-half of the 16-inch and 14-inch suction pipe is laid, also the laying of the 20-inch bell and spigot pipe connecting the fifty-two new wells directly with the pumps is nearly finished. The increased quantity of water acquired by the extension of the Boulevard system so far, has enabled the Department since last May to get along with taking a comparatively small proportion of the supply from the Cook or Hydraulic Wells. Both of these plants, however, are fully capable of yielding as much water as ever, and with the completion of the new Boulevard Plant and the consequent dispensing with them as a permanent supply, they still can be relied upon in case of an emergency, such as an accident to the pumping machinery at the other stations or a serious break in the conduit force main or river pipe.

#### FILTER INLET, GALLERY AND CONDUIT.

Although at no time during the year was there any necessity of using the Filter Gallery or Inlet nor any prospect of their being called into requisition for years to come, yet they have been regularly inspected with a view of not allowing deterioration to take place so as to impair their efficiency when needed. Repairing a break in the new 30-inch conduit pipe on West Sixth near West Street was the only expense incurred on the line between the Boulevard Station and No. 1 Station, Centralville, during the year, excepting the care of the enclosed grounds or parks on the conduit and tunnel.

#### RESERVOIR.

The work of beautifying the reservoir grounds and



making them more attractive to the public begun in 1899 was continued during the past year.

Some necessary repairs were made on the stone masonry of the gate house, otherwise the buildings were in good condition and the fences also.

It is now about fifteen years ago since the water was entirely drawn out of the reservoir for the purpose of cleaning the bottom and it certainly ought to be done again soon, even at the risk of the slope paving sliding out of place, as it did previously.

#### PUMPING STATIONS.

Pumping Station No. 1: Since the Boulevard pumps were speeded up to send six and one-quarter million gallons down the conduit to this Station, the Low Duty Worthington and Morris having only five millions capacity each, were consequently inadequate and had to be put out of commission, the whole work thereby devolving on the High Duty Worthington which did the work required splendidly. But mechanical skill and ingenuity has never designed nor never will design a machine that is not subject to wear and liable to break down; therefore, it would seem to be simply the part of wisdom and prudence to be prepared for such an emergency. To be sure, the Department has in the Morris and the Low Duty Worthington two pumps that can jointly pump ten million gallons, but they are old machines, out of date, extravagant in the use of coal, one of them would have to be run with fifty-five lbs. steam pressure, the other with one hundred and fifty lbs., thereby requiring the use of all four boilers. It seems to me very important, almost imperative, that a new twelve million



modern High Duty Pumping Engine should be installed at this Station, especially when all the water used will have to be pumped at this Station.

Pumping cost per million gallons.....	\$6.53
Total pumpage.....	2,107,538,836 gals.
Coal on hand.....	1296 56-2000 tons.

Pumping Station No. 2, although pumping but a comparatively small quantity of water, averaging some weeks scarcely a million gallons per day, has had to run constantly in order to avoid roiling the water in the mains of that section of the city by starting and stopping. This necessitated retaining the full complement of engineers and firemen, thus making the pumping per million gallons very costly.

The boilers, pumps and everything at this Station are in good condition, with the exception of the smoke stack, a section of which about thirty feet long fell last October. The building was somewhat damaged where the broken pipe struck but has since been repaired. A new stack made of 3-8-inch metal should be procured the coming year.

Cost of pumping per million gallons...	\$15.99
Total pumpage.....	842,204,888 gals.
Coal on hand.....	694 22-2000 tons.

Pumping Station No. 3 was run twelve days during the year, pumping 31,421,136 gallons into Pumping Station No. 2. While shut down, several brass fittings including two lubricators were stolen from there, entrance being effected through a window. The matter was reported at

police headquarters, since then, the machinery has been denuded of brass fittings as a precaution in the event of another break being made into the building.

The condenser at this Station was removed to the Boulevard and the balance of the machinery will be as soon as the new Station is ready.

Cost of pumping per million gallons..	\$16.28
Total pumpage.....	31,421,136 gals.
Coal on hand.....	292 438-2000 tons.

At Pumping Station No. 4 the boilers and pumps have been severely tried during the past year, running constantly to their full capacity to do the work required of them. As a consequence, considerable repairs will have to be made on both boilers and engines as soon as the new machinery is started.

The smoke stack at this Station, like the one at No. 2, suffered the loss of thirty feet last September, where it broke the metal was as thick as brown paper. Fortunately, however, the new stack designed for the enlarged Station was in process of construction and was reared shortly after the old one fell. The new pump and boilers are exact duplicates of those at present in use, as are also the valves, gauges and other fittings. When the machinery, old and new, at this Station is in running order it will have a capacity of ten million gallons. To make room for the new boilers, the boiler room has been doubled in size and the engine pit enlarged in area 308 square feet, giving quarters much better adapted for the work than formerly. The new stack is 42 inches diameter, 80 feet high and made

of 5-16 x 1-4-inch iron with one set of three 5-8-inch cable guys and is situated in rear of buildings. A new 300 horse power heater has been placed in the engine room on the exhaust pipe with condenser brought, as before stated, from No. 3 Station. A 6-inch cast iron suction pipe for the condenser has been laid to the river and extended therein 100 feet, with an ample sized strainer at the end. All of the work in connection with this Pumping Station would be done and everything running now, but for the unusual delay in delivering material.

In the location lines and grades of the suction and force mains connecting the new wells, provision is made so that if, when the Boulevard wells are more fully developed and the possibilities of the territory thereabouts for yielding water more reliably ascertained, the Water Board of the future, financial conditions permitting, might deem it expedient to build a permanent pumping station at a point more central than the present one; or if the suggestion is adopted to do the pumping by electric power pumps, four or more situated at different sections of the well plant and operated from a power station on the other side of the river near the railroad where the coal could be handled with more economy; no material change would have to be made in the pipe system.

Cost of pumping per million gallons...	\$6.12
Total pumpage.....	2,087,509,143 gals.
Coal on hand.....	1298 226-2000 tons.

#### EXTENSIONS.

\* Owing to the liberal policy of your Honorable Board and your predecessors, very few inhabited streets of the

city are now without water mains. As a result, the past year, while no applications for water were refused, only 7816 feet of cast iron main pipe and 195 feet of 2-inch wrought iron pipe were laid. This is considerably less than in previous years. The longest extension was on Varnum Avenue beyond Fowler Road and the next longest was on Nelson Avenue for the Egan house. The total of cast iron main pipe laid to date and now in use is 127.78 miles.

#### FIRE SERVICES.

Included in the foregoing account of extensions are the following private fire services, granted upon application, the Department requiring the applicants to pay only the first cost of the work, allowing the free use of the water for the extinguishment of fires and the testing of fire appliances without rental:

Tremont & Suffolk Mills	....	Hall Street.
Hooper Knitting Co	.....	Perry Street.
High School Annex	.....	John Street.
Waterhead Mills	.....	Lawrence Street.
Lowell Hosiery Co. to Dye House		Mt. Vernon St.
Batchelder's Plug Factory	.....	Mt. Vernon St.
American Hide & Leather Co	....	Perry Street.

#### GATES.

Twenty-two new gates were set on street mains during the year, making a total of 1188. Thirty-three wooden gate boxes, having become decayed so as to be dangerous to travel, were replaced by iron boxes and fifty-two gates were repaired.

## HYDRANTS.

Ten (10) hydrants were added during the year and two discontinued, making a total of 1098 now in service, as follows:—

## HYDRANTS, January 1, 1901.

KIND.		2 Noz's.	3 Noz's.	4 Noz's.	Total.
Boston Machine.....			172		172
Chapman.....		3	105	49	157
Coffin.....			1		1
Corey.....			1		1
Eddy.....			32	1	33
Flush.....	458				458
Holyoke.....				1	1
Ludlow.....		3	184	1	188
Michigan.....			74		74
Newark.....			1		1
Perkins.....				1	1
Lowry.....	11				11
Total.....	469	6	570	53	1098

Twenty-nine (29) flush hydrant boxes were renewed and 281 hydrants were repaired.



## PRIVATE HYDRANTS, January 1, 1901.

KIND.		1 Noz.	2 Noz's.	3 Noz's.	4 Noz's.	Total.
Boston Machine.....			1	8		9
Chapman.....		1	4	1	5	11
Coffin.....				1		1
Flush.....	3					3
Kenney.....			1			1
Ludlow.....			18	12	8	38
Michigan.....				3		3
Perkins.....			3	1		4
Total.....	3	1	27	26	13	70



## SERVICES.

As can be seen by the accompanying table, only 115 new services were connected during the year, increasing the total number now in use to 10,634. Forty-three were changed for new or larger pipe and thirty-five leaks in service pipes were repaired. The reduction in the number of services changed compared with other years is due to the refusal of the Department to change the service if the trouble could be remedied by cleaning or repairing the old pipe, which was done in many cases, saving money to the water taker and the city.

Two hundred and ninety-eight wooden service boxes were replaced by iron boxes and thirty-four others were repaired.

## NEW SERVICES.

99	3-4-inch Iron Tin Lined Pipe .	3,733 feet
4	1-inch Iron Tin Lined Pipe .	91 feet
3	1-inch Iron Pipe . . .	363 feet
2	1 1-2-inch Iron Pipe . . .	61 feet
2	2-inch Iron Pipe . . .	187 feet
1	2-inch Iron Lead Lined Pipe .	42 feet
1	1-2-inch Lead Pipe . . .	24 feet
2	5-8-inch Lead Pipe . . .	54 feet
1	3-4-inch Lead Pipe . . .	111 feet
<hr/>		<hr/>
115		4,666 feet

Amount previously laid . . .	413,409 feet
Total now laid . . .	418,073 feet
Total services laid . . .	11,343
Total cut off at main . . .	761
Total reconnected . . .	52
Total now in use . . .	10,634

## SERVICES CHANGED.

No.	KIND.	Changed to						Total feet.
		Iron 1-in.	Iron 1 1-2-in.	Tin lined 3-4-in.	Tin lined 1-in.	Lead lined 3-4-in.	Lead 5-8-in.	
2	1-inch iron . . . . .	90.0	..	..	..	..	..	90.0
1	1-inch iron . . . . .	..	47.8	..	..	..	..	47.8
2	3-4-inch iron . . . . .	51.8	..	..	..	..	..	51.8
29	3-4-inch iron . . . . .	..	..	658.5	..	..	..	658.5
3	1-inch iron . . . . .	..	..	..	108.0	..	..	108.0
2	3-4-inch iron . . . . .	..	..	..	..	21.6	..	21.6
1	3-4-inch iron . . . . .	..	..	..	..	..	9.9	9.9
1	1-inch lead . . . . .	35.0	..	..	..	..	..	35.0
1	3-4-inch lead . . . . .	..	..	76.0	..	..	..	76.0
1	5-8-inch lead . . . . .	40.0	..	..	..	..	..	40.0
43	Total . . . . .	216.8	47.8	734.5	108.0	21.6	9.9	1138.0

## METERS.

The number of new meters set the past year has dropped off materially as compared with previous four years, viz.: 1896, 622 meters were set; 1897, 676; 1898, 484; 1899, 413; 1900, but 326. The whole number now in use is 5,586; 51 per cent. of the number of taps.

Meters condemned . . . . .	46
New meters set in place of old ones condemned . . . . .	48
New meters set for private use . . . . .	13
Meters discontinued . . . . .	8
Meters frozen and burst . . . . .	34
Meters cleaned and repaired . . . . .	636

## METERS RUNNING January 1, 1901.

SIZES.	5-8 in.	3-4 in.	1 in.	<sup>I</sup> 1-2 in.	2 in.	3 in.	4 in.	6 in.	Total.
Ball & Fitts.	1	.....	.....	.....	.....	.....	.....	.....	1
Columbia.....	64	.....	.....	.....	.....	.....	.....	.....	64
Crown.....	2265	1548	279	14	16	2	5	2	4131
Desper.....	40	23	7	.....	.....	.....	.....	.....	70
Duplex.....	5	8	5	.....	.....	.....	.....	.....	18
Empire.....	67	29	2	.....	.....	.....	.....	.....	98
Frost.....	.....	4	1	.....	.....	.....	.....	.....	5
Gem.....	.....	.....	.....	.....	5	.....	2	2	9
Hersey.....	200	67	5	1	.....	.....	.....	.....	273
Lambert.....	103	63	7	.....	.....	.....	.....	.....	173
Metropolitan.....	.....	2	.....	.....	.....	.....	.....	.....	2
Nash.....	85	65	42	.....	.....	.....	.....	.....	192
Niagara.....	1	1	.....	.....	.....	.....	.....	.....	2
Thompson...	6	20	3	.....	.....	.....	.....	.....	29
Trident.....	123	29	1	.....	.....	.....	.....	.....	153
Union.....	17	1	.....	1	.....	.....	.....	.....	19
Worthington	159	26	52	67	32	7	3	.....	346
Westingh'ose.....	.....	1	.....	.....	.....	.....	.....	.....	1
	3136	1887	404	83	53	9	10	4	5586

## PRIVATE METERS RUNNING January 1, 1901.

SIZES.	3-8 in.	5-8 in.	3-4 in.	1 in.	2 in.	Total
Columbia .....		4				4
Crown .....	1	25	22	2		50
Desper .....		1	3	1		5
Duplex .....		1				1
Empire .....		2				2
Frost .....		2	1			3
Hersey.....		5	1			6
Lambert .....		6				6
Nash.....		11	2		1	14
Thompson .....			1			1
Trident .....		1				1
Worthington .....				1	3	4
Total .....	1	58	30	4	4	97



## REPAIR SHOP.

At no time in the history of the Water Works Repair Shop has it proved of such utility as during the past year. Particularly is this so because of the addition of an Eaton, Cole & Burnham pipe cutting and threading machine purchased by your authority. This machine cuts and threads all sizes of pipe from 1-inch to 6-inch inclusive, thus enabling the Department to do practically all of its own pipe cutting, being of especial advantage in cutting and threading the large amount of pipe used for the new wells. By its use, every part of the work on the strainers or well points which must be used on every well, is done by the employees of the Department. Since it was first started over ten thousand feet of 2 1-2-inch tubing has been cut and threaded in various lengths.

During the year the old 1 7-16-inch main shafting which has done duty since 1886 was replaced by one of 1 15-16-inch diameter with larger and heavier hangers. The old shafting after being straightened was put in service as a second line for running the pipe machine, shaper and brass lathe. In connection with the brass finishing work a foundry has been established in the boiler room where all the composition castings needed by the Department are turned out when wanted without waiting for weeks as had been the case in the past. It also affords a ready means for the disposal of old brass and composition metal which is constantly accumulating around a shop of this kind where repairs on valves, hydrants, meters, pumps, etc., are going on every day.

Neither the operation of the pipe machine nor the

work required in the foundry will cause any increase in the permanent force of the Department.

#### SUMMARY.

Total gross pumpage for the year .	5,068,674,000	Gallons
Total pumped into High Service .	65,472,694	"
Total pumped at Pumping Station No. 3 . . . . .	31,421,136	"
Total pumped at Pumping Station No. 4 . . . . .	2,087,509,142	"
Total net pumpage . . . . .	2,884,271,028	"
Estimated quantity syphoned from Pumping Station No. 3 and pumped at Pumping Station No. 2 . . . . .	181,100,000	"
Number of tons of coal consumed in pumping . . . . .	5,458 961-2000	
Total expense of pumping . . .	\$42,513 84	
Average cost of pumping a million gallons based on expense of pumping:—Low Service . . .	\$13 90	
Average cost of pumping a million gallons based on expense of pumping:—High Service . . .	\$24 11	
Charges for water by metered rates	\$142,544 67	
Charges for water by schedule rates	75,853 59	
Total charges . . . . .	\$218,398 26	
Total receipts . . . . .	\$210,149 93	
Total expenditures . . . . .	\$202,634 80	
Expended for maintenance . . .	\$83,680 39	

Expended for maintenance and interest . . . . .	\$132,937 39	
Average cost of a million gallons based on maintenance and interest . . . . .	\$46 09	
Total consumption of water . . .	2,881,074,794	Gallons
Average daily consumption . . .	7,893,356	"
Per capita consumption based on 95,000 population . . . . .	83	"
Price received per million gallons consumed . . . . .	\$72 94	
Price charged per million gallons meter rates . . . . .	\$167 96	
Number of services in use . . .	10,634	
Number of meters in use . . .	5,586	
Number of fire hydrants in public service . . . . .	1,098	
Total length of mains in miles . . .	127.78	
Total Water Works debt . . .	\$1,274,700 00	
Amount in Sinking Fund . . .	287,226 20	
Net debt on account of Water Works	\$987,473 80	

## CONSUMPTION.

The total quantity of water used and wasted during the year was 2,881,074,994 gallons making a daily average of 7,893,356 gallons and a per capita consumption of 83 gallons. The average daily consumption exceeds that of last year 607,151 gallons and shows a gain over the consumption of water in 1890 of 2,519,820 gallons per day. About one-half of this increase took place in the last two years

and is chargeable in some measure to the flushing of lead pipes through fear of lead poisoning. Though these figures show an extraordinary waste of water, yet allowing for a corresponding increase the next ten years, giving a daily consumption in 1910 of 10,413,176 gallons, the quantity of water confidently expected from our new wells will be ample to meet the consumption at that time and by the judicious application of meters the consumption can be kept within the limits of our supply for the next twenty years.

In conclusion, I would state that each Pumping Station has a coal supply sufficient to last until July; and the Department has cast iron pipe enough of all sizes for any work in prospect, excepting 6-inch; about two hundred tons of this should be purchased at once.

Again taking pleasure in acknowledging my many obligations to the members of the Board and to the Clerk, this Report with accompanying tables and schedules is

Respectfully submitted,

ROBERT J. THOMAS,

Superintendent.

## LOW SERVICE — WATER PIPES LAID IN 1900.

STREETS.	BETWEEN WHAT STEETS.	LENGTH IN FEET.					TOTAL.
		4-in.	6-in.	8-in.	10-in.	12-in.	
Aiken Ave .	Westerly to Hildreth . . . .		67				67.0
Arch . . .	Southerly from Middlesex . .		6				6.0
Bodwell Ave	Northerly from Charles ave .		98				98.0
Brewery Lane	Connection and blow-off to sewer		21				24.0
Burlington Av	Extended easterly . . . .		42				42.0
Campos . .	Wilder and Rolfe . . . .		442				442.0
Charles Ave	Easterly to Bodwell ave . .		641 1-2				641.5
Cottage . .	Easterly from Chapel . . . .	223					223.0
Crescent . .	Extended northerly . . . .		96				96.0
Cumberl'd R'd	Southerly from Orleans st . .		273				273.0
Dix ? . . .	Northerly from Gorham . . .		144				144.0
Foster . . .	Extended southerly . . . .		103				103.0
Green . . .	Extended westerly . . . .		96				96.0
Hall . . . .	Fire service to T. & S. storehouse		12				12.0
High . . . .	Southerly from Rogers . . . .		185				185.0
Hildreth . .	By st northerly . . . .		824				824.0
HooperKnitCo	Fire service from Perry st . .		10				10.0
Houghton .	Southerly from Plain st . . .		99				99.0
John . . . .	Fire service to High School annex	26					26.0
Johnson . .	Southerly from Varnum ave . .		336				336.0
Lawrence . .	Fire service to Waterhead mills		233 1-2				233.5
Lawson . . .	Westerly to School st . . . .	128 1-2					128.5
LowellH'syCo	Fire service from yard to dye house and engine house . .	46 1-2	56 1-2				103.0
Marsh . . .	Replaced 4-inch at Phillips . .		52				52.0
Merrill . . .	Southerly and westerly from Lawrence . . . . .	135					135.0
	Carried forward . . . .	559	3837 1/2				4396.5



LOW SERVICE — WATER PIPES LAID IN 1900. — *Continued.*

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.					TOTAL.
		4-in.	6-in.	8-in.	10-in.	12-in.	
	Brought forward . . . . .	559	3837½				4396.5
Mt. Vernon .	Fire service to Bachelder's bung and plug factory . . . . .	20					20.0
Nelson Ave	Southerly to Egan's house . . . . .		735				735.0
Orleans' . .	Easterly to Cumberland road . . . . .		142				142.0
Pawtucket .	Easterly from Walker . . . . .			60			60.0
Perry . . .	Fire service to Amer Hide and Leather Co . . . . .		37 1-2				37.5
Pleasant . .	Northerly to Andover . . . . .		125				125.0
Phillips . .	Replaced 4-inch Broadway and Marsh . . . . .		365				365.0
Poplar . . .	Offset on account of gas meter . . . . .		132				132.0
Shaw Stoc'gCo	Offset on account of new building . . . . .			67			67.0
So Whipple .	Extended southerly . . . . .		36				36.0
Starbird . .	Extended northerly . . . . .		84				84.0
Stewart . .	Southerly and westerly to Baldwin . . . . .		264				264.0
Tolman Ave	Extended westerly . . . . .			69			69.0
Varnum Ave	Fowler road to Forrest house . . . . .		893				893.0
WamesitPrCo	Offset on account of new building U. S. Cartridge Co . . . . .			151			151.0
	Hydrants . . . . .		109				109.0
	Laid in 1900 . . . . .	579	6760	347			7686.0
	Less taken out and discontinued on Marsh, Phillips, Poplar Sts and Wamesit Power Co . . . . .	417	106	131			654.0
	Total . . . . .						7032.0
London . . .	Westerly from Main St, 2-inch valve in St, 1.9 foot west of west line of Main St, 13 feet north of south line of London St . . . . .						195.0



## HIGH SERVICE — WATER PIPES LAID IN 1900.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.					TOTAL.
		4-in.	6-in.	8-in.	10-in.	12-in.	
Third . . .	Easterly to Llewellyn st . . .		130				130.0
	Laid in 1900 . . . . .						130.0
	High Service laid previous to 1900						37295.5
	Total High Service to January 1, 1900 . . . . .						37425.5

Brought forward.....	7,032.0	feet
Low Service laid previous to 1900....	630,252.0	"
<hr/>		
Total Low Service to January 1, 1901....	637,284.0	"
Total High Service to January 1, 1901....	37,425.5	"
Total High and Low Service to January	<hr/>	
1, 1901.....	674,709.5	"
Total in mile, 127.78.		

## LOW SERVICE—LIST OF STOP GATES SET DURING 1900.

STREETS.	LOCATION.	4-in.	6-in.	8-in.	10-in.	12-in.
Arch . . . . .	15 feet north of south line Middlesex street, 17.3 feet east of west line Arch street . . . . .		1			
Aiken Ave . . . . .	13 feet north of south line Aiken avenue, on east line Hildreth street . . . . .		1			
Brewery Lane . . . . .	14 feet north of corner Franklin House, 13 1-2 feet east of railroad fence, on blow-off to sewer. . . . .		1			
By . . . . .	8 feet north of south line By street, 3 feet east of east line Hildreth street . . . . .		1			
Campos . . . . .	11 feet south of north line Campos street, on west line Wilder street . . . . .		1			
Charles Ave . . . . .	12 feet south of north line Charles avenue, on west line Bodwell avenue . . . . .		1			
Cottage . . . . .	5 feet south of north line Cottage street, on east line Chapel street . . . . .	1				
Cumberland Road . . . . .	12 feet east of west line Cumberland road, on south line Orleans street . . . . .		1			
Dix . . . . .	9 feet south of intersection of east line Dix street, with west line Gorham street, and on west line Gorham street . . . . .		1			
Dutton . . . . .	On hydrant connection 23 1-2 feet south of south line entrance to Lowell Machine Shop, 9 feet west of east line Dutton street . . . . .		1			
Gershom Ave . . . . .	12 feet south of north line Gershom avenue, on east line Woodcock avenue . . . . .		1			
Hall . . . . .	On fire service to T. & S. storehouse, 14 1-2 feet north of south line Hall street, 8 1-2 feet west of west line Cabot street . . . . .		1			
High . . . . .	15 feet east of west line High street, on south line Rogers street . . . . .		1			
Hildreth . . . . .	35.3 feet east of west line Hildreth street, on north line Aiken avenue. (West of Hildreth) . . . . .		1			
Hooper Knit Co . . . . .	8.2 feet east of west line Perry street, 73 feet north of south line building . . . . .		1			
Houghton . . . . .	12 feet west of east line Houghton street, 26 1-2 feet north of south line Plain street . . . . .		1			
John . . . . .	On fire service to High School annex, 21 1-2 feet east of building, 25.3 feet north of Paige street line of building . . . . .	1				
Johnson . . . . .	12 feet east of west line Johnson street, on south line Varnum avenue . . . . .		1			
Lawrence . . . . .	On fire service to Waterhead mills, 10 1-2 feet west of east line Lawrence street, 5 feet south of post hydrant . . . . .		1			

## LOW SERVICE—LIST OF STOP GATES SET DURING 1900.

—Continued.

STREETS.	LOCATION.	4-in.	6-in.	8-in.	10-in.	12-in.
Lawson . . .	14 feet north of south line Lawson street, on east line School street . . . . .	1				
Lowell Hosiery Co.	Indicator gates in yard, to dye house and engine house . . . . .	1	1			
Merrill . . .	14 1-2 feet west of east line Lawrence street, 7 feet south of north line Merrill street . . . . .	1				
Middlesex . . .	On hydrant connection 17 feet north of south line Middlesex street, 23 feet west of west line Arch street . . . . .		1			
Mt. Vernon . . .	On fire service to Bachelder's bmg and plug factory, 8 1-2 feet east of west line Mt. Vernon street, 13 1-2 feet south of north line building . . . . .	1				
Perry . . . .	On fire service to Amer Hide & Leather Co, 12 feet east of west line Perry street, 10 1-2 feet north of south line Perry street (near angle) . . . . .		1			
Phillips . . .	12 1-2 feet west of east line Phillips street, 1 foot north of north line Broadway (replaced 4-inch gate) . . . . .		1			
Pleasant . . .	18.3 feet west of east line Pleasant street, on south line Andover street . . . . .		1			
School . . . .	17 1-2 feet west of east line School street, on north line Westford street . . . . .			1		
Stewart . . .	12 feet south of north line Stewart street, on east line Baldwin street . . . . .		1			
Varnum Ave . .	13 feet south of north line Varnum avenue, on west line Boulevard extension . . . . .		1			
Waterhead Mills .	Indicator gate on fire service to Waterhead mills, in front office . . . . .	1				

LOW SERVICE—LIST OF HYDRANTS SET DURING  
THE YEAR 1900.

STREETS.	LOCATION.
Bodwell Ave . . .	Easterly side on end of pipe.
By . . . .	Change, westerly side, 181 feet northerly to end of pipe.
Columbia . . . .	Easterly side, near Middlesex street.
Cumberland Road .	Westerly side, 261 feet south of Orleans street.
Ford . . . . .	Change of hydrant, from Ford street to Aiken street, to Ford on east line Aiken street.
Hildreth . . . .	Easterly side, on terminus in front Burns' house.
Jewett . . . . .	Changed, from West Sixth street at Jewett street to Jewett street, east side 52 1-2 feet north of "square."
Johnson . . . . .	Westerly side, on end of pipe.
Nelson Ave . . .	Westerly side in front of Egan house.
Oakland . . . . .	On end of pipe, 97 feet north of Parker street
Varnum Ave . . .	Northerly side, opposite Forrest house.
Waterhead Mills .	Off Lawrence street, in rear of mill. (Private.)
West Sixth . . . .	Northerly side, in front house, No. 257.

HIGH SERVICE—LIST OF HYDRANTS SET DURING  
THE YEAR 1900.

STREETS.	LOCATION.
Fairmount . . .	Changed hydrant, westerly side, from in front No. 339, 10 feet northerly.
Third . . . .	Changed, northerly side, to 3 feet west of Llewellyn street.

**Stock on Hand January 1, 1901.****CAST IRON PIPE IN PIECES.**

Six feet 30 in. . . . .	\$ 10.00
Fifty-nine feet 24 in. .	60.00
Sixty-four feet 20 in. .	50.00
Thirty-six feet 16 in. .	18.00
Thirty-nine ft. 12 in. .	16.00
Thirty-two feet 10 in. .	14.00
Forty-six feet 8 in. . .	11.00
Fifty-six feet 6 in. . . .	9.00
Sixty-five feet 4 in. . .	14.00
One manhole. . . . .	11.00
One 24 inch clamp sleeve. . . . .	20.00
Twenty old logs. . . . .	2.00
One 6 in. check valve. .	12.00
Twenty-eight hundred feet 4 inch x 4 inch kyanized spruce. . .	45.00

**HYDRANTS.**

Six 6 inch Ludlows. . .	180.00
One 6 in. Michigan old	5.00
One 6 inch threeway Chapman. . . . .	15.00
One Lowrey. . . . .	20.00
One flush, old. . . . .	5.00

**FLANGE PIPE.**

Two lengths 24 inch. .	96.00
Three lengths 12 inch .	72.00
Eleven lengths 10 in. .	176.00
One length 8 inch. . . .	12.00
Seven lengths 4 inch. .	30.00

**FLANGE SPECIALS.**

One 10 in. x 8 in. x 6 in. fourway. . . . .	4.50
Five 16 inch x 12 inch threeways. . . . .	30.00
One 12 in. x 12 in. x 20 in. threeways. . . . .	20.00
Five 10 in. x 8 in. x 6 in. threeways. . . . .	22.50
Six 12 in. x 10 in. x 6 in. threeways. . . . .	75.00
Two 8 in. x 8 in. x 6 in. threeways. . . . .	8.00
Three 6 1-4 in. bends. .	8.00
One 10 1-8 in. bend. . .	4.00
Two 10 1-4 in. bends. .	14.00
One 4 1-4 in. bend. . . .	1.80
One 6 in. sleeve. . . . .	3.40



***Stock and Tools at Shop, Hampshire Street.***

One 8 inch x 10 inch slide valve engine.	200.00	Forty-two turning tools.....	25.00
One 10 foot engine lathe.....	300.00	Ten steel arbors ....	10.00
One 7 foot engine lathe.....	250.00	Two meter reamers..	10.00
One 5 foot speed lathe	50.00	Twenty-one taps....	25.00
One 6 foot brass lathe	350.00	Three tap wrenches..	3.00
One 6 in. pipe cutting and threading ma- chine .....	700.00	One hand vise .....	.50
One shaper . . . . .	200.00	Four bench vises.....	12.00
One upright drill....	175.00	One pipe vise .....	10.00
One emery wheel ..	40.00	Three small platform scales ... ..	15.00
One grindstone.....	75.00	One large platform scales .....	100.00
Two soldering furna- ces .....	10.00	One counter scales..	1.50
One large end chuck.	25.00	One Smith tapping machine.....	400.00
Two independent chucks .....	50.00	Six tapping machines with rubbers.....	500.00
Two drills.....	10.00	Six shaft hangers....	12.00
Ten lathe dogs.....	5.00	Forty-four tools for brass lathe.....	44.00
Twenty reamers....	40.00	Twelve sets.....	1.00
Ten twist drills.....	25.00	Thirteen cast iron chucks .....	40.00
Eight flat drills .....	8.00	One set hand chas- ers .....	10.00
Twelve flat chucking drills .....	12.00	One set broachers....	5.00
One 1 inch drill.....	4.00	Twenty-five tools for brass work .....	25.00
One 1 1/4 inch drill..	4.00		

One set wooden patterns for 3-4 inch sidewalk cocks....	15.00	One gate of 4 brass patterns for 3-4 in. tail pieces.....	15.00
One set wooden patterns for 1 inch sidewalk cocks ...	25.00	One gate of 4 brass patterns for 3-4 in. smooth tail pieces.	15.00
One set wooden patterns for 1 inch corporation cocks.....	25.00	One gate of 4 brass patterns for nuts for 3-4 inch cocks.....	5.00
One wooden pattern complete for 2 inch plug cock. ....	25.00	One gate of 4 brass patterns for washers for 3-4 inch cocks.	5.00
One wood and two brass patterns for handles for cellar cocks .....	5.00	One gate of 4 brass patterns for 3-4 in. x 1-2 in. couplings.	15.00
One gate of 4 brass patterns for 3-4 inch sidewalk cocks....	25.00	One gate of 4 brass patterns for 3-4 inch thimbles.....	15.00
One gate of 4 brass patterns for 3-4 inch corporation cocks .	25.00	Two large wooden patterns for heads for pumps.....	40.00
One gate of 4 brass patterns for plugs for 3-4 inch sidewalk cocks. ....	25.00	One wooden pattern for packing box for pumps .....	5.00
One gate of 4 brass patterns for plugs for 3-4 inch cellar cocks.....	25.00	Two large wooden patterns for nuts.....	1.50
		Two plunger rods for pumps.....	50.00
		One Gow meter testing machine .....	100.00

One Howe platform scales and tank for testing meters....	300.00	Two dust pans.....	.20
Eleven Stillson wren- ches.....	10.00	One large oil can.....	.50
Nine S wrenches....	4.00	Four small oil cans..	.50
Thirteen flush hydrant wrenches .....	26.00	One bit stock and set of bits.....	2.00
Eight post hydrant wrenches .....	8.00	One set chisels. ....	2.00
One gate hydrant wrench.....	5.00	One belt punch.....	.50
Six taps and drills... ..	30.00	One set steel figurers..	5.00
Three tap wrenches..	24.00	Two cut nippers.....	3.00
One set plumbers tools	5.00	One naphtha can.....	.50
One line 2 in. shafting and pulleys ....	150.00	Two hack saws.....	2.00
One line 1 1-2 inch shafting and pulleys	50.00	One clock.....	2.00
Seven hangers for 2 inch shafting .....	20.00	One pair scissors.....	.50
Four hangers for 1 1-2 inch shafting.....	10.00	One pair snips.....	1.75
Belts and belting....	100.00	One saw set....	.50
Two naphtha furnaces.	6.00	One desk.....	5.00
One pair round nosed pliers.....	.50	Two gate plans. ....	1.00
Twenty files.....	2.00	One marlin spike.....	1.00
Three seldering irons	3.00	Two naphtha lamps....	1.00
Six screw drivers....	1.50	One Lowell Water Works seal, .....	10.00
		Tools for sealing fire services.....	5.00
		Two step ladders....	10.00
		One map of water mains .. .....	500.00
		Three die stock ratch- ets .....	4.50
		One chair and 3 stools	2.00
		One floor brush.....	1.00

One mirror.....	.50	Six ft. 6 in. wrought	
One waste can.....	1.00	iron pipe .....	1.00
One pipe bench .....	5.00	Fourteen feet 4 inch	
One nozzle .....	5.00	soil pipe.....	1.00
One brass Dutch-		Eight ft. 6 in. soil pipe	.75
man.....	25.00	One 12 inch earthen	
One iron Dutchman.	10.00	elbow .....	.50
Six lbs. iron wire ...	.25	Fifty-five 3-4 in. iron	
Ten lbs. brass rod....	2.50	sidewalk boxes....	82.50
Five lbs. copper wire.	2.00	Fifteen 1 inch iron	
One lead reel .....	1.25	sidewalk boxes....	22.50
One pipe rack.....	25.00	Ten 2 inch iron side-	
One length 6 inch		walk boxes. ....	15.00
flange pipe.....	2.50	One stone drag.....	10.00
One length 4 inch		Sixty-eight caps for	
flange pipe.....	1.75	sidewalk boxes....	10.00

***Property and Tools at Tool House.***

Twenty-five cedar		One pipe testing ma-	
posts. ....	\$ 20.00	chine. ....	15.00
One hundred and fifty		Five meter box cast-	
bricks ...	.50	ings .....	1.00
One lawn mower....	3.00	One sluice gate .....	2.00
Two derricks. ....	150.00	Nine covers and frames	
One iron part of drink-		for gate boxes ...	9.00
ing fountain. ....	1.00	Two coke furnaces for	
One drinking foun-		melting lead.....	10.00
tain....	25.00	Fifty ft. 4 in. x 4 in.	
Two saw horses. ....	.50	kyanized spruce....	1.00
Six wheelbarrows, old	1.50	Six bridge bolts....	6.00

One rubber wagon		Two hundred feet 3-4	
spring . . . . .	.50	inch iron cable . . .	5.00
Six 3 feet iron exten-		Six long handle shov-	
sions . . . . .	4.50	els . . . . .	3.00
Eighteen 2 feet iron		One window frame	
extensions . . . . .	9.00	and screen . . . . .	.50
Twenty-five 1 ft. iron		Two iron hoops. . . .	1.00
extensions . . . . .	10.00	One iron for cant hook	.25
Thirty-four plugs for		Twenty - t h r e e old	
sidewalk boxes . . .	3.00	doors . . . . .	5.00
Two pipe benches . . .	8.00	Three double windows	1.50
One mortar box . . . .	1.00	Three transom win-	
Four odd gate boxes .	4.00	dows . . . . .	1.00
Five caps for gate		Fifteen old windows.	2.50
boxes . . . . .	1.25	Two painter's horses.	2.00
One screen for filter		Two 8 ft. horses . . . .	4.00
gallery . . . . .	12.00	Four driving mauls . .	5.00
One wagon jack . . . .	.50	One 12 ft. fence gate	1.00
One carpenter's bench	10.00	Half keg spikes . . . .	.75
One templet for hy-		Six 2 ft. horses . . . .	2.00
drant box . . . . .	1.00	One grate for coke	
One templet for gate		furnace . . . . .	1.00
box . . . . .	1.00	Two door hangers . . .	.50
One copper hand pump	.50	Ten feet of track . . .	.50
Six slings . . . . .	3.00	One apron for drink-	
Six dog troughs . . . .	1.50	ing fountain . . . .	.50
Five bridge hangers		Two l o n g handle	
for pipe . . . . .	3.50	scoops . . . . .	1.00
One 16 inch earthen		One 5 ft. step-ladder .	1.50
sleeve . . . . .	.25	One scoop shovel . . .	1.00



One chain.....	1.00	One hose spanner....	.25
One broom.....	.50	Two flush hydrant	
One galvanized iron		wrenches.....	2.00
pail.....	.50	Eight square pointed	
One pattern for boiler		shovels.....	4.00
front.....	2.00	Ten wooden mauls...	10.00
One pulley for electric		Four hand saws, old..	3.00
motor.....	5.00	Twenty-five ft. 1 in.	
One 15 ft. ladder....	3.00	rubber hose.....	2.50
One 10 ft. ladder....	2.00	Five paving mauls...	5.00
Three wheelbarrows		Eleven hoes.....	5.50
for barrow men...	4.50	Nine striking ham-	
One 12 ft. straight		mers.....	5.00
edge.....	2.00	Five ladles.....	15.00
Five tool boxes.....	20.00	Eleven gate wrenches	35.00
Thirty lanterns.....	12.00	Five iron blocks and	
Two 6 inch wooden		falls.....	30.00
plugs.....	.50	Six tag ropes.....	3.00
Two 8 inch wooden		Four rock chains....	20.00
plugs.....	.50	One log chain.....	5.00
One 12 inch wooden		Eighteen pick handles,	
plug.....	.50	old.....	4.50
Two iron bars for fur-		Four steel tunnelling	
nace.....	1.00	bars.....	5.00
Two manhole steps..	.25	One steel tamping bar	1.50
One 3-4 in. brass valve	1.00	Four hatchets....	2.00
Two post hydrant		One oil tank and pump	5.00
wrenches.....	1.00	Two tunnels.....	.20
Five picks.....	2.50	Five gals. kerosene oil	.50
Six round pointed		Three sledge hammers	4.50
shovels.....	3.00	Three lead pots.....	10.00



One long handle dipper . . . . .	1.00	Five paint brushes . . .	.50
Six sidewalk wrenches	6.00	Twelve paint pots . . .	1.00
One 12 inch monkey wrench . . . . .	.50	One funnel . . . . .	.50
One single wagon tree	1.00	Forty-five cast iron gate boxes . . . . .	135.00
One top for gate wrench . . . . .	.50	Two handles for tool boxes . . . . .	.50
One sink trap . . . . .	.50	Thirty feet 10 inch wooden spout . . . . .	5.00
Two 5-8 in. lead goose necks . . . . .	1.00	One wagon jack . . . . .	1.00
One 2-horse mowing machine . . . . .	25.00	One crow bar . . . . .	1.50
Five oil barrels . . . . .	2.00	Five hundred lbs. old rope . . . . .	1.00
Nine hundred 5 ft. fence pickets . . . . .	25.00	Fifty feet old rubber hose . . . . .	.50
Two hundred 4 ft. fence pickets . . . . .	5.00	One set wooden clamps . . . . .	.50
One 1-2 barrels cement	3.00	One part 6 inch well cleaner . . . . .	.50
Three squares sheet iron . . . . .	1.00	Two basins for drinking fountain . . . . .	.50
One electric motor . . .	25.00	One roof staging . . . . .	2.00
One centrifugal pump	100.00	Two pulleys for staging . . . . .	.50
One hundred and thirty feet 1 inch steam pipe . . . . .	5.00	Eight portions of 2 in. well cleaners . . . . .	3.00
One stone hand barrow . . . . .	2.00	One cupboard . . . . .	1.00
One jack and bar for bracing . . . . .	1.00	Three slings for staging . . . . .	1.00
		One door spring . . . . .	.25

Four pipe hangers...	6.00	Five gals. varnish....	15.00
Four 2 inch tees.....	.60	Half gal. raw oil.....	.40
Two gals. linseed oil.	.50	Two gals. turpentine.	.50
Two gals. dryer.....	1.00	One bbl. engine oil ..	15.00
Two gals. liquid dryer	1.00	One bbl. cylinder oil.	23.00

***Property and Tools at Stable.***

One sorrel horse, Dandy.....	100.00	Seven curry combs and brushes.....	10.00
One chestnut horse, Ned .....	125.00	Six brooms. ....	1.50
One bay mare, Kitty.	125.00	Six hay forks. ....	3.00
One black horse, Tom	100.00	Twenty-five ft. 1 in. rubber hose.....	2.50
One bay mare, Nellie	200.00	One string of bells...	1.00
One bay mare, Lottie	225.00	Two chamois .....	2.00
One roan horse, John	175.00	Two 4 qt. measures..	1.00
Ten single harnesses.	350.00	One axe.....	1.00
One set double harness.....	40.00	Fifteen sponges.....	5.00
One new harness....	50.00	One feed box.....	.50
One single truck....	150.00	One wagon jack.....	1.00
One double truck....	100.00	One hay cutter .....	5.00
Seven sleighs.....	200.00	Nine whips .....	1.00
One Goddard buggy.	100.00	Eight street blankets	50.00
Six wagons.....	900.00	Three lap robes .....	5.00
Two democrat wagons	225.00	One wolf-skin robe...	5.00
One dump cart.....	100.00	One scythe.....	.50
Fourteen stable blankets, 7 new, 7 old...	31.00	Two large sun shades	1.00
		Two wagon covers...	40.00
		One cupboard.....	1.00

One round pointed shovel . . . . .	.50	Six tons hay . . . . .	120.00
One bench . . . . .	1.00	One work bench . . . . .	5.00
Seven fly nets . . . . .	5.00	One 1-4 wool skin . . . . .	.50
Five harness hooks . . . . .	.50	Ten lbs. harness leather . . . . .	4.00
Three hitch ropes . . . . .	.50	Twenty lbs. scrap leather . . . . .	5.00
Seven halters . . . . .	2.00	One set sleigh bells . . . . .	.30
One snow shovel . . . . .	.50	Six 1 1-4 inch roller buckles . . . . .	.10
Four bale hooks . . . . .	.50	Five 1 inch roller buckles . . . . .	.10
One carriage top . . . . .	5.00	Two 1 3-4 inch rings . . . . .	.10
One scoop shovel . . . . .	1.50	Twelve 1 1-8 in. rings . . . . .	.25
Seven storm covers for horses . . . . .	7.00	Six 7-8 inch rings . . . . .	.10
Three-quarters bbl. of Standard Food . . . . .	8.00	One pair 1 1-4 inch trace buckles . . . . .	.25
Forty lbs. rock salt . . . . .	.25	Four rubber girt buckles . . . . .	.30
Twelve lbs. axle grease . . . . .	1.00	Half package tacks . . . . .	.05
Three galvanized iron pails . . . . .	1.50	Half box cushion buttons . . . . .	.10
Two qts. harness oil . . . . .	2.00	Two packages 8 oz. tacks . . . . .	.20
Fifteen hundred lbs. rye straw . . . . .	13.00	Six spools linen thread . . . . .	.50
Two hundred bush. oats . . . . .	68.00	Two balls Renfrew thread . . . . .	.50
Two boxes Eureka powders . . . . .	1.00	Eight balls super thread . . . . .	1.00
Two stall hooks . . . . .	.50	One ball buttoning twine . . . . .	.10
Two hoof picks . . . . .	.25		
Twelve harness hooks . . . . .	1.00		
One box harness blacking . . . . .	.25		

One 1-2 sheets saddle felt .....	1.25	Half doz. 5-8 inch nickle rings.....	.15
Half sheet yellow felt	.75	Five balls Barbour thread.....	.40
Four second bits ....	.25	Seven balls No. 10 Barbour thread....	.60
Two sets second-hand heavy harness.....	20.00	Eight balls harness wax.....	.10
Half lb. copper rivets	.20	One 1-2 sheets sheep- skin .....	.50
One pair second-hand hames .....	.50	Eight 1 1-2 in. nickle buckles.....	.40
Four pair shaft tips..	1.00	Ten new slide loops..	.50
Four 1 1-2 in. nickle lug dees.....	.30	Five new harness straps .....	1.25
One doz. 1 1-2 inch nickle rings... ..	.30	One second-hand cush- ion .....	.50
One pair 2 in. nickle rings.....	.20	Three manure forks..	1.50
Three 1 1-4 in. nickle buckles.....	.30		

***Property and Tools at Blacksmith Shop.***

One forge and bellows	\$300.00	One draw knife.....	1.00
One steel square ....	1.50	Two Lowell Water Works stamps ...	2.00
Nine hand punches...	4.50	One portable forge...	10.00
Thirty-one blacksmith tools .....	30.00	Two closets.....	3.00
Fourteen pair tongs..	14.00	One pair pliers .....	1.00
One work bench. ...	1.00	One grub pick.....	1.00
One pair dividers ....	5.00	One coal hod.....	.50
One bench vise.....	3.00	One coal shovel .....	.50

Two hundred and twenty-four ft. 1 1-2 inch steel drills...	160.00	Six rock wedges.....	6.00
Eighty-nine feet 1 1-4 inch steel drills ...	50.00	One gate wrench . .	2.00
Twenty-one ft. 1 in. steel drills .....	10.00	One sidewalk wrench	1.00
Nine spoons.....	5.00	One file.....	.25
One broom .....	.50	Two hundred lbs. wrought iron.....	4.00
One spanner.....	.50	One ice tongs.....	.25
One blacksmith's sow.	5.00	One handle for lead pot. ....	.50
One tag rope.....	1.00	One ice chisel.....	.50
Two anvils.....	6.00	Eighty-three rings for hydrants .....	4.00
Six cutters .....	3.00	Five hundred lbs. nuts and washers .....	5.00
Three hundred lbs. old iron .....	5.00	Seven drive well clamps, old .....	21.00
Twenty lbs. machine steel .....	3.00	Two lbs. borax.....	.20
Thirty lbs. tool steel..	4.00	Four cold chisels....	2.00
Twenty-four picks...	18 00	Four hooks for tag rope. ....	1.00
Two stone chains....	15.00	Fifteen 1 1-4 in. iron bolts .....	1.50
Seven crowbars.....	10.00	Twenty unfinished caulking sets.....	10.00
Three pick handles ..	.30	One stone point .....	1.00
One water pail .....	.50	One chain hook.....	.50
One hundred and fifty lbs. coal.....	.75		
Three hundred sixty- seven unfinished nuts	5.00		

**Property and Tools at Foundry.**

One core oven .....	5.00.	Five crucibles .....	10.00
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One No. 5 brass		Five lbs. jeleluice . . .	.25
moulder's furnace.	50.00	Three plaster of paris	
Two ingot plates . . . .	3.00	matches . . . . .	15.00
Two pair crucible		Six core plates . . . .	5.00
tongs . . . . .	3.00	One core bench . . . .	2.00
One crucible bail . . .	3.00	One pair blowers . . .	1.25
Two moulder's trowels	1.00	Eighty lbs. pig copper	15.00
Two moulder's sewers	1.50	Five gates brass pat-	
One pair rammers . . .	1.50	terns . . . . .	25.00
One watering pot . . .	.50	Sixty lbs. plaster of	
Sixteen moulder's		paris . . . . .	1.00
flasks . . . . .	24.00	Fifteen hundred lbs.	
Half keg parting sand	5.00	coal . . . . .	4.50

***Property at Superintendent's Office.***

One roll top desk . . .	35.00	One mapcity of Lowell	1.00
Two desks . . . . .	25.00	Three bill files . . . .	1.50
One set drawers and		One water gauge . . .	1.00
book-case . . . . .	20.00	One test gauge . . . .	5.00
One small book-case .	5.00	Two ink stands . . . .	.50
One Howard electric		Two electric flashlights	4.00
clock . . . . .	50.00	One letter press . . . .	5.00
One gate plan . . . . .	.50	One Webster diction-	
One diagram . . . . .	2.00	ary. . . . .	5.00

***Property and Tools at Reservoir, Low Service.***

Two lawn mowers . . .	10.00	One monkey wrench .	.50
One wooden rake . . .	1.00	One long handle hoe .	1.00
One garden rake . . .	1.00	One axe . . . . .	.50



One wooden shovel..	.50	Three round pointed	
One ice chisel.....	.50	shovels. ....	3.00
One lantern .....	.50	One hundred fifty ft.	
One broom .....	.50	3-4 in. rubber hose.	18.00
One pail.....	.50	One hand saw.....	1.00
One garden wheel-		One buck saw.....	.50
barrow ....	1.50	One sprinkling pot...	.50
Two square pointed		One turf cutter.....	.50
shovels.....	2.00	One pair sheep shears	1.50

***Filter Basin House.***

One hoe.....	1.00	One ice hook.....	.50
One gate wrench ....	2.00	One ice rake ...	.50
One ice chisel .....	.50	One ice dipper .....	.50

***Property and Tools at Inlet Chamber House.***

Sixteen screens.....	160.00	One snow shovel.....	1.00
One gate wrench.....	2.00	Fifty ft. 1 in. rubber	
Two sets iron blocks		hose .....	6.00
and falls.....	10.00	One broom.....	.50
One boat .....	5.00	Two sq. p'ted. shovels	2.00
Three tag ropes.....	3.00	One ice rake.....	.50
One tee wrench.....	1.00	One wooden rake....	1.00
One round pointed		One wheelbarrow....	.50
shovel.....	1.00	One pick .....	.75

***Bodwell Gate House.***

One round pointed		One pick. ....	.50
shovel.....	1.00	One gate wrench....	2.00

One 1 in. x 3-4 in. iron coupling . . . . .	.10	One sidewalk wrench	1.00
One 3-4 in. sidewalk cock . . . . .	1.25	Eight feet 1 1-4 inch iron pipe . . . . .	.50
		One 3-4 in. brass nipple	.15

***Property and Tools at Pumping Station No. 1.***

One High Duty Worthington engine . . . . .	30,000.00	Four socket wrenches	5.00
One Low Duty Worthington engine . . . . .	10,000.00	Two monkey wrenches	1.00
One Morris engine . . . . .	15,000.00	One 2 ft. steel square.	1.50
One Worthington pump for High Service . . . . .	1,000.00	One copper hammer . . . . .	.50
Eleven High Duty engine wrenches . . . . .	30.00	One hammer . . . . .	1.00
Ten Low Duty engine wrenches . . . . .	28.00	Two jack screws . . . . .	10.00
Ten Morris engine wrenches . . . . .	28.00	One tool cupboard . . . . .	5.00
Two oil dishes . . . . .	2.00	One set differential blocks . . . . .	10.00
One set oil cans . . . . .	5.00	One brass hydrant . . . . .	10.00
Six drills . . . . .	5.00	Two platform scales . . . . .	30.00
One oil filter . . . . .	.50	One hay scales . . . . .	150.00
One cold chisel . . . . .	.50	Three ladders . . . . .	15.00
Two bits . . . . .	1.00	One lantern . . . . .	.40
Two bit stocks . . . . .	2.00	One barometer . . . . .	1.00
One level . . . . .	1.50	Three thermometers . . . . .	1.50
One keyhole saw . . . . .	.50	One iron wheelbarrow	1.50
One hack saw . . . . .	.50	Two iron pails . . . . .	1.00
		Two indicators . . . . .	5.00
		One steam gauge . . . . .	5.00
		One broom . . . . .	.50
		One floor brush . . . . .	1.00
		One gas lamp and tubing . . . . .	1.50
		One 24 inch elbow . . . . .	50.00

Two clocks.....	6.00	Two long handled	
Three chairs.....	5.00	scoops.....	3.00
One table.....	2.00	Two No. 5 scoop	
Two mops. ....	.50	shovels.....	3.00
One dustpan.....	.25	One coal hammer....	1.00
Five cuspidores .....	2.50	One slicer.....	2.00
Four Stillson wren-		One hoe... ..	1.00
ches .....	2.00	Twenty-five ft. steam	
One extra check valve		hose .....	12.00
for High Duty en-		One oil can.....	.50
gine.....	100.00	Eight sheets emery	
One set drawings for		cloth.....	.10
High Duty engine.	25.00	One screw driver....	.25
One ratchet.....	1.00	Half bbl. Kleansall...	5.00
One flue scraper.....	2.00	Two lbs. Daniels pack-	
One rake.....	.50	ing. ....	1.50
One bar.....	1.00	Twenty lbs. Garlock	
One oil cupboard....	2.00	packing .....	15.00
Nine 5 inch rubber		Twenty-eight 1-8 lbs.	
valves .....	9.00	Knowlton packing.	28.00
Fifty gals. Harris en-		Ninety springs for	
gine oil ....	12.50	High Duty engine.	9.00
Fifty-one gals. Woods		Forty-five plates for	
cylinder oil.....	22.95	High Duty engine.	10.00
Forty-eight 1-2 gals.		One section of grates	
Valvolene cylinder		with bars . ....	25.00
oil.....	21.83	Three center bars....	5.00

***Property and Tools at Pumping Station No. 2.***

Two Dean steam		One Dean feed pump.	100.00
pumps.....	4,000.00	Three thermometers..	1.50

One platform scales..	5.00	One ice chisel.....	.50
One 30 ft. Howe scales .....	150.00	Two long handle shov- els .....	2.00
One map of city of Lowell.....	10.00	One slice bar.....	.50
One desk.....	3.00	Two brooms.....	.50
Four chairs.....	5.00	Two boiler hoes.....	1.00
One 20 ft. ladder....	5.00	One iron wheelbarrow	1.50
One 15 ft. ladder....	3.00	Three large lamps....	6.00
Three 60 gal. oil tanks	15.00	One hundred feet cot- ton hose.....	25.00
One iron tube scraper	2.00	One gal. measure ...	.50
Three lanterns.....	1.00	Three Stillson wren- ches.....	1.50
One stool.....	.50	Eighteen lbs. cotton waste .....	1.00
One grindstone.....	2.00	Two gals. machine oil	.50
Two square pointed shovels.....	2.00	Twenty-four g a l s . kerosene .....	2.40
One vise bench.....	2.00	Thirty gals. cylinder oil .....	13.50
One work bench.....	3.00	One tunnel.....	.10
One clock.....	3.00	Two oil cans.....	.50
Four cold chisels....	2.00	Two water tumblers..	.20
Three monkey wren- ches .....	1.50	Two lbs. hemp pack- ing .....	1.00
Seven socket wren- ches .....	3.50	Ten spindies for Dean pump .....	10.00
Two crowbars. ....	3.00	One small jack.....	1.50
Three gate wrenches.	6.00	Seven dies.....	3.50
One striking hammer.	1.00	Two die stocks .....	5.00
One coal hammer....	1.00	Eight gauge glasses..	1.00
One sledge hammer..	1.00		
Two long steel chisels	2.00		
Three taps.....	1.50		

One ring for water piston.....	5.00	Five lbs. mop waste..	.25
One 1 inch tap.....	1.50	Two 8 in. air chambers.....	20.00
One 3-4 inch tap ...	1.00	One 6 in. iron elbow.	2.00
One 1-2 inch tap.....	.75	One 6 inch wooden plug.....	.50
Thirty-four lbs. Knowlton packing	34.00	One 3 in. x 2 in. iron tee.....	.15
One ratchet drill.....	2.00	Three hand hole plates	3.00
Four drills.....	2.00	Two check valves....	10.00
One hand brush.....	.50	One 2 1-2 iron tee....	.15
One valve wrench ...	.50	One 3 inch iron coupling.....	.15
Two fire shovels.....	1.50	One 3 in. x 2 1-2 in. iron tee....	.15
One scythe.....	.50	Eight pieces pipe covering.....	2.00
Three files.....	.50	Thirty-six sleeves for W. I. pipe.....	72.00
One copper hammer..	.50	Six ft. 10 in. x 4 in. soil pipe.....	1.00
One 2 ft. steel square	1.00	Thirty feet 4 inch wrought iron pipe.	7.50
Half gal. Solarine polish.....	.35	Five 4 inch elbows...	7.50
One 5 gal. oil can....	.50	Two hundred ft. 5 ft. fence pickets....	5.00
One set spring and packing for small pump.....	5.00	One gate frame and cover.....	1.00
One round pointed shovel.....	1.00	One bit stock and bits	1.50
Nine lamp chimneys.	1.00	One claw hammer...	.75
Three lantern globes.	.30	One pair 3 in. clamps.	.50
Seventy-five fire bricks	1.50		
Twelve lbs. 1-2 inch tucke packing.....	6.00		
Six pieces 2 1-2 inch steel pipe.....	5.00		



Three steel wedges...	3.00	Three boilers .....	3,000.00
Two pair 6 in. wooden clamps .....	1.00	One post hydrant wrench .....	.50
One long handle scoop	1.00	One sidewalk wrench	1.00
Two garden hoes....	2.00	Half bbl. magnesia..	
Two iron rakes.....	1.00	pipe covering.....	.50
One old 2 inch valve.	1.50	One caulking hammer	1.00
One old bench vise...	1.00	One machinist's hammer. ....	1.00
One 6 in. iron nipple.	1.00	Fifty ft. 3-4 in. rubber hose. ....	5.00
One old steam trap...	2.00	Two 4 in. 1-4 bends..	2.50
Two pipe hangers....	.50	Fifty-three feet 6 inch wrought iron pipe..	25.00
Two air pumps.....	300.00	Thirty feet 4 inch wrought iron pipe..	5.00
One condenser and pumps.....	200.00		
Half bbl. Cumberland coal.....	.50		

***Property and Tools at Pumping Station No. 3.***

Two three million gal. Worthington pumps	2,000.00	One 8 inch monkey wrench .....	.40
One air pump .....	100.00	Four Stillson wrenches.....	2.00
One boiler feed pump	100.00	Eight socket wrenches	4.00
Two boilers .....	1,500.00	Three offset wrenches	5.00
Five wrenches for Worthington pump	5.00	Four 3-4 in. eye bolts.	1.00
One 18 inch monkey wrench.....	.75	Three 1-2 in. eye bolts	.75
One 12 inch monkey wrench.....	.50	Two brooms.....	1.00
		Two brass trays .....	2.00
		Three brass oil cans..	1.50



Three tunnels.....	.50	One waste can .....	.50
Twenty-two 6 inch rubber valves.....	10.00	One mop .....	.25
One dust pan .....	.25	Ten lbs. cotton waste.	.50
One brush... ..	.50	Two 5 gal. oil cans...	1.00
Six 4 inch springs ...	.50	One iron rake.....	.50
One 8 foot ladder ...	1.50	One hoe.....	1.00
One stand ....	2.00	One 24 in. flange....	1.50
One 9 foot running board.....	5.00	One 2 inch scraper...	1.00
Eight ft. 3-8 in. rub- ber hose .....	.25	One faucet .....	1.25
One work bench.....	2.00	One desk.....	2.00
One platform scales...	15.00	Two axes.....	1.00
One iron wheelbarrow	2.00	One coal hammer...	.50
Two coal shovels....	2.00	One pipe, vise and bench ....	2.50
One sledge hammer..	1.50	Eight 5 inch rubber valves ...	8.00
One slice bar ...	1.00	Five brass valve springs.....	.75
Two boiler hooks....	2.00	Twenty-five ft. 1 1-2 in. rubber hose....	5.00
One hook bar.....	1.00	One ink stand .....	.25
Two pails.....	.50	Three lamp chimneys.	.45
Six drip pans .....	2.00	One lantern globe...	.10
Four brass oil cans...	2.00	Five 1-2 lbs. Knowl- ton packing.....	5.50
Four brass trays.....	2.00	Two lbs. flax packing	1.00
Ten gals. kerosene...	1.00	Three lbs. Eureka packing ....	1.50
One 1-2 gal. oil can..	.25	One diaphragm for hand pump .....	.50
Three B. & H. lamps.	7.50	One hand hole gasket	.25
Two large lamps ...	5.00		
Three bracket lamps..	1.50		
Three lanterns.....	1.00		
Two 60 gal. oil tanks.	6.00		

One post hydrant wrench . . . . .	.50	Two 1 inch iron unions. . . . .	.50
Two fork wrenches. . . . .	2.00	Two 2 inch iron nipples. . . . .	.20
One gate wrench. . . . .	2.00	One 1 in. x 3 1-4 in. iron tee. . . . .	.20
Forty gals. cylinder oil. . . . .	16.00	Two 1 1-2 in. flanges. . . . .	1.00
One qt. Solarine polish . . . . .	.25	Three 2 in. brass valves . . . . .	12.00
Two pipe cutters. . . . .	3.00	Two picks. . . . .	1.00
One 2 in. die stock and die. . . . .	5.00	Two round pointed shovels . . . . .	2.00
One machinist's hammer. . . . .	1.00	One long handle scoop . . . . .	1.50
One long steel chisel. . . . .	1.50	Two fire hoes . . . . .	2.00
One 1 1-2 inch die. . . . .	1.00	One hand saw. . . . .	.50
One 1 1-4 inch die. . . . .	1.00	One cold chisel . . . . .	.50
One 2 inch die. . . . .	1.50	Twelve ft. 5-8 in. rubber hose . . . . .	.50
Three 2 in. couplings. . . . .	.50	One spirit level. . . . .	1.00
Three 2 inch iron elbows . . . . .	.50	Two window sashes. . . . .	1.00
Two 1 in. iron elbows . . . . .	.30	Three 2 inch flange tees. . . . .	1.50
One 1 1-4 in. iron 1-4 turn. . . . .	.15		

***Property and Tools at Pumping Station No. 4.***

Two Knowles pumps	2,400.00	One heater . . . . .	50.00
Two boiler feed pumps	100.00	Two desks . . . . .	5.00
One condenser and pump . . . . .	200.00	One ink stand. . . . .	.25
Two boilers . . . . .	2,000.00	Four chairs . . . . .	5.00
Eight large lamps. . . . .	10.00	One small lamp. . . . .	.25
		Three lanterns. . . . .	1.00

One whisk broom . . . .	.10	Three cold chisels. . . .	1.50
One gate plan . . . . .	1.00	Eleven ratchet wren-	
Two clocks . . . . .	5.00	ches. . . . .	15.00
Five large lamp wicks	.50	Four S wrenches. . . .	2.00
Eighteen small lamp		Two spanners . . . . .	1.00
wicks . . . . .	.25	One 24 inch Stillson	
Eighteen 10 in. x 3-4		wrench . . . . .	1.50
in. gauge glasses . . .	2.50	One 36 inch Stillson	
One 26 in. x 3-4 in.		wrench . . . . .	2.00
gauge glass . . . . .	.50	One 18 inch Stillson	
Two 18 in. x 3-4 in.		wrench . . . . .	1.00
gauge glasses . . . . .	.75	Two 12 inch Stillson	
Twelve 3-4 in. rubber		wrenches . . . . .	1.00
washers . . . . .	.50	Two 12 inch monkey	
One bull's eye glass . .	.50	wrenches . . . . .	1.00
Twelve large lamp		One 24 inch monkey	
chimneys . . . . .	2.00	wrench . . . . .	1.50
Four small lamp chim-		One 8 inch Stillson	
neys . . . . .	.40	wrench . . . . .	.50
Four sheets emery		Three pair chain tongs	9.00
cloth . . . . .	.08	Two pair pipe tongs. .	3.00
Two 2 in. valve discs	.20	One screw jack . . . . .	2.50
Eight 1 1-4 inch valve		One scythe . . . . .	.50
discs . . . . .	.80	One scotch drill . . . .	3 00
Three 1 in. valve discs	.30	One ratchet drill. . . .	2.00
One 3-4 in. fusible plug	1.00	One 2 inch die stock	
Twenty gals. kerosene	2.00	and die . . . . .	15.00
Forty gals. cylinder		One Armstrong stock	
oil . . . . .	16.00	and dies . . . . .	20.00
Two gals. engine oil. .	.50	One small die stock	
Two 60 gal. oil tanks	3.00	and set of dies . . . .	5.00

Two pipe cutters....	2.00	Seven lbs. 5-8 inch	
One pipe bench and		Chesterton packing	3.50
vise ... ..	5.00	Six lbs. 1-2 in. Chest-	
Two anvils ....	5.00	erton packing.....	3.00
O n e blacksmith's		Seven lbs. 3-8 inch	
forge ....	10.00	Chesterton packing	3.00
Two drills ....	.50	Thirty - s e v e n lbs.	
Two files.....	.25	Knowlton packing.	37.00
Twenty-four p u m p		Two lbs. oxalic acid..	.20
wrenches ....	25.00	Fifteen lbs. Black	
Ten packing tools....	2.00	Hawk sheet packing	7.50
Fifteen eye bolts ....	10.00	Five lbs. sheet rubber	
One screw driver....	.25	packing ....	2.50
One oil set with stand	2.00	Six studs for plates ..	1.00
Two machinist's ham-		Half gal. Chesterton	
mers .....	2.00	polish .....	.50
Two oil cans.....	.50	Two discs for 3 inch	
One saw.....	.50	P. & C. valves....	.50
One dust pan .....	.50	Two balls asbestos	
One mop .....	.50	packing.....	.50
One lever for feed		Four rubber valves for	
pump .....	2.00	pumps.....	4.00
One floor brush ....	1.00	Two hundred pump	
Twelve lbs. cotton		springs.....	20.00
waste .....	.60	Four lbs. 7-8 in. square	
Three valve studs and		packing.....	2.00
nuts for large pump	3.00	Two balls lamp wick-	
Ten rubber valves for		ing.....	.20
condenser .....	10.00	Seventy-five old pump	
Two lbs. Daniels pack-		valves.....	5.00
ing.....	1.00	One gauge glass cutter	.50

One spirit level.....	1.00	One ground hoe.....	1.00
Two gate wrenches..	4.00	One iron coal barrow.	2.00
Three-quarters bbl. cement.....	1.00	One coal hammer....	1.00
Seven fire irons.....	7.00	One 20 ft. Howe platform scales.....	100.00
Two boats.....	10.00	One small platform scales.....	5.00
Two coal scoops.....	2.00	Two dippers.....	.20
One grind stone.....	5.00	One 20 ft. ladder....	4.00
One snath... ..	.50	Two trowels....	1.50
One 3 inch. tube scraper... ..	2.00	Two shaking levers for grates.....	2.00
One blow out hose...	5.00		

***Property and Tools in Stock Room.***

Twenty-eight hundred lbs. pig lead.....	12.50	One hundred lbs. rubberbestos sheet packing.....	50.00
Nine hundred twenty-seven lbs. yarn....	37.00	Sixty-five lbs. sheet rubber packing....	32.50
Three hundred lbs. cotton waste.....	19.50	Six ft. 2 in. lead pipe.	3.00
Three hundred seventy-five lbs. wiping solder.....	75.00	Four gals. wood filler	3.00
One hundred fifteen lbs. soft solder ....	23.00	Two electric clocks..	10.00
Seventy-five lbs. old lead.....	3.00	One gauge for reservoir.....	100.00
Thirty-five lanterns..	15.50	Five lbs. lamp black..	.50
Twenty-eight lantern globes.....	2.80	Two lbs. sizing.....	.20
One bull's eye lantern	1.00	One 8 inch cog gear.	5.00
		Ten lbs. raw umber..	1.00
		One can chrome green	.50
		Two lbs. harness dressing . . . . .	1.00



One qt. axle oil . . . . .	.15	Six castings for 1 in.	
Nine gals. Chesterton		plugs . . . . .	.50
polish . . . . .	4.50	Eight hundred lbs.	
Four lbs. french yellow	1.00	coke . . . . .	2.00
One can varnish . . . . .	1.50	Twenty-nine round	
One qt. white liquid		pointed shovels . . .	29.00
dressing . . . . .	.50	Five snow shovels . .	5.00
One 1 gal. oil can . . . .	.20	Two coal scoops . . . .	2.00
One lb. bronze. . . . .	.50	Four iron rakes . . . .	3.00
Five spirit levels . . . . .	5.00	Three paving ham-	
Fourteen caulking		mers . . . . .	4.50
hammers . . . . .	14.00	Three stone hammers	9.00
Seven Lowell Water		Three hatchets . . . . .	3.00
Works stamps . . . . .	3.50	Four saws . . . . .	3.00
One door check and		Ten monkey wrenches	7.00
spring . . . . .	.50	Eighteen cold chisels	10.00
Fifteen lead paper		Three paver's brooms	1.50
weights . . . . .	1.50	Four 5 gal. oil cans . .	1.50
Two 1 3-4 inch nuts . . .	.25	Nine yarning irons . . .	9.00
Two iron wedges . . . . .	2.00	One wire brush . . . . .	1.00
Two reservoir gate		One pinch bar . . . . .	1.50
spindles . . . . .	10.00	One 30 in., 2 24 in., 1	
Six keys for sidewalk		20 in., 1 16 in., 2 12	
boxes . . . . .	.60	in., 2 10 in., 4 8 in.,	
Two electric batteries		4 6 in. clips . . . . .	50.00
and wires . . . . .	10.00	Eleven stone points . .	11.00
Twenty-five lbs. cop-		Twelve pick handles . .	1.00
per wire . . . . .	6.50	Five sledge hammer	
One 2 inch auger . . . . .	2.00	handles . . . . .	.50
Eleven 1-4 inch iron		Twelve striking ham-	
plugs . . . . .	.50	mer handles . . . . .	1.00



Three caulking hammer handles . . . . .	.30	Eleven clamps for clips . . . . .	5.50
Twelve striking hammers . . . . .	15.00	Two bull points . . . . .	2.00
Five sledge hammers . . . . .	6.25	One 12 inch cog gear . . . . .	5.00
Twelve wooden mauls . . . . .	12.00	Ten lbs. mop waste . . . . .	.50
Two axes . . . . .	2.00	Four asbestos elbows . . . . .	2.00
One carpenter's adze . . . . .	1.50	One gal. Solarine polish . . . . .	1.50
Ten flush hydrant wrenches . . . . .	20.00	One grass hook . . . . .	.50
Seven post hydrant wrenches . . . . .	3.50	One handle for hand pump . . . . .	.50
Two gate wrenches . . . . .	6.00	Twenty-four 1-2 lbs. Knowlton packing . . . . .	25.00
One tunnel . . . . .	.25	Fifteen 1-2 lbs. rubber-bestos gasket tubing . . . . .	7.75
Two rock wedges . . . . .	2.00	Three 1-2 lbs. Eclipse gasket tubing . . . . .	1.75
Three bursting wedges . . . . .	3.00	Eleven lbs. 1 inch braided hemp . . . . .	3.00
Forty caulking sets . . . . .	20.00	Eleven 1-2 lbs. 7-8 in. square packing . . . . .	8.50
Twenty-six diamond points . . . . .	20.00	Forty-six lbs. gum core packing . . . . .	23.00
Two spanners . . . . .	1.00	One 2 inch Kennedy valve . . . . .	8.00
Ten cutters . . . . .	10.00	Two 1 1-2 in. Kennedy valve . . . . .	11.00
Fourteen pipe wedges . . . . .	7.00	Six 1 inch Kennedy valve . . . . .	16.50
Seven 4 inch hose washers . . . . .	.50	One 1 1-4 in. Kennedy valve . . . . .	5.00
Seven small drills . . . . .	5.00		
Twenty-four shims . . . . .	2.00		
Twelve wedges . . . . .	1.00		
One ratchet handle . . . . .	1.00		
One jaw for 18 inch Stillson wrench . . . . .	.50		

Three 2 inch valves...	15.00	One 6 in. pipe cutter.	10.00
Two 1 inch valves...	5.00	Three wrought iron	
Two 3-4 inch valves.	3.50	pipe cutters.....	7.50
One 6 in. Kennedy		Four ratchet die	
valve .....	10.00	stocks.....	40.00
Eleven 1-4 inch Ken-		Three lawn mowers..	15.00
nidy valves.....	5.00	One 6 inch tapping	
One 2 1-2 inch valve.	7.50	machine .....	400.00
Six 2 inch Pratt &		One 2 in. globe valve	5.00
Cady valves.....	18.00	Two 1 1-2 inch globe	
Five 3-4 in. compress-		valves.....	7.00
sion cocks .....	7.50	Four scythes.....	2.00
One iron spring weight	1.00	Two snaths .....	2.00
Eighty-five 3-4 in. iron		Six wooden rakes....	6.00
washers .....	1.00	Two long handle coal	
One railroad jack ..	3.00	scoops.....	2.00
Two hoisting jacks ..	8.00	One sod cutter .....	1.00
Six lights of glass...	.50	Eight pair rubber	
Fifty lbs. plumbago..	5.00	boots.....	24.00
One top for Marine		Eight 5-8 inch goose	
pump .....	2.50	necks .....	4.00
Three chain tongs ...	25.00	Eleven 3-4 inch goose	
Six ft. pipe covering.	.50	necks .....	6.00
Twenty ft. fountain		Four 1 in. goose necks	5.00
chain .....	2.00	Three 3 inch iron well	
Fifty lbs. tallow ....	5.00	points....	9.00
Fifteen pair pipe tongs	100.00	Three Marine pumps.	45.00
Three Stillson wren-		Eleven lengths 4 inch	
ches ....	3.00	rubber hose.....	100.00
Thirteen die stocks ..	100.00	One 4 inch galvanized	
Fifty assorted dies...	50.00	iron pump.....	5.00

Five pitcher pumps..	35.00	Twenty 5 in. x 1 in.	
Fifteen lbs. leather ..	3.00	iron bolts .....	1.00
Three brass force		One 4 inch flange off-	
pumps .....	6.00	set.....	.50
Two portions of shaft		Seven 1 in. iron plugs	.35
coupling .....	1.00	Sixteen 3-4 inch iron	
Fifty ft. block tin		plugs .....	.50
tubing .....	5.00	Fifteen 1-2 inch iron	
One hundred ft. block		plugs .....	.30
tin rod.....	15.00	Twenty lbs. iron	
Thirty ft. 1-4 in. cop-		spikes.....	1.00
per wire.....	3.00	One hundred fifty lbs.	
Eleven 1-2 lbs. 1-16		lead dross.....	4.00
inch iron wire.....	.60	One 10 inch plug....	2.00
Twenty-five ft. 1 inch		One steam gauge....	6.00
rubber hose....	5.00	One check valve, old.	6.00
One hundred and fifty		Fourteen composition	
ft. 3-4 in. rubber hose	20.00	boxes for Morris en-	
Three brooms....	1.50	gine .....	50.00
Fifty lbs. salt .....	1.25	Two lamp burners...	.50
Six small lamp chim-		Six portions of springs	
neys .....	.60	for engine .....	2.00
One brass gong.....	1.00	One steam blow-off ..	3.00
Six 4 in. iron flanges.	.50	One belt for electric	
Two wheels for sliding		motor .....	15.00
door .....	.20	Four lbs. toilet paper	.20
Seven dippers .....	.70	Five hundred lbs.	
One 4 in. steam valve	5.00	paper for packing..	65.00
One 6 in. steam valve	8.00	One hand brush.....	.50
One hand bar.....	1.00	Twenty exploders....	.40
One wheel for gate ..	.50	Fifty lbs. dualin.....	11.50

Two 2 3-4 inch belts.	10.00	Three bolts for Marine	
One gas jet tube.....	.50	pump .....	.15
Two para rubber bands	.50	Thirty - s e v e n lag	
Two 1-2 inch gauge		screws .....	1.50
glasses .....	.20	Sixty-eight 3-4 inch	
Eight 3-4 inch gauge		iron bolts .....	1.50
glasses .....	1.00	Eighty-two 1-2 inch	
Seventy-two 1-2 inch		iron bolts.....	1.50
rubber washers....	1.50	Two pipe hangers ...	1.00
Twenty-two 3-4 inch		Fifty-three 3 in. brass	
rubber washers...	.50	screws .....	2.50
Six Rochester lamp		One repair valve ....	2.50
wicks.....	.50	Two whitewash brush-	
One electric gong. ..	2.00	es .....	1.00
Five steel scrapers...	.50	Two 1 1-2 in. carpen-	
Two 10 inch monkey		ter's chisels .....	3.00
wrenches .....	1.50	Five jaws for 18 inch	
Two claw hammers,		Stillson wrenches..	1.50
new.....	2.00	Fifteen striking ham-	
Two spring oil cans..	.50	mer handles.....	.75
Eight whetstones....	.75	Fifty lbs. grass seed..	3.00
One 2 in. tube scraper	2.00	Five 6 inch cast iron	
Two 10 inch Stillson		plugs .....	.50
wrenches .....	1.50	Twenty-two lbs. felt	1.00
Two panel locks.....	1.00	One A. P. Smith lead	
Eleven battery jars...	5.50	furnace.....	60.00
Forty-two 20 in. x 1		One freight truck ...	10.00
in. iron bolts .....	2.00	One hundred ft. 1 in.	
Two 2 1-2 in. x 1 in.		rope .....	1.50
brass caps and cocks	10.00	Two cans Keystone	
Three 3 in. key bolts.	.75	grease. ....	10.00

Ten Keystone oil cups	5.00	On top 5 inch Chap-	
Fifteen tin oil tunnels	1.50	man hydrant ..	5.00
Fifty gals. lard oil...	15.00	Sixty-one gate spin-	
One spindle for Dean		dles .....	200.00
pump .....	15.00	Two 6 inch discs for	
Ten ft. 1 1-2 inch		Boston gate. . . .	5.00
shafting .....	3.00	One 8 inch disc for	
One 18 in. shaft pul-		Boston gate .....	2.50
ley .....	1.50	One 4 inch disc for	
One Barclay lubricator	12.00	Boston gate .....	2.50
One Lowry hydrant		Twelve castings for	
wrench .....	1.50	gate spindles, brass	40.00
One 2 in. goose neck.	2.00	Six brass castings for	
One marlin spike....	.50	travelers .....	3.00
One set hydrant tools	10.00	Twenty three brass	
Two brass heads for		castings for hydrant	
Worthington pumps	30.00	stems .....	50.00
One set bridge irons..	2.00	T w o independent	
Seventeen hand hole		valve stems .....	2.00
gaskets .....	1.00	Thirty-three brass parts	
Two sets 24 inch rods		spindles for hydrants	33.00
and heads for float-		Forty caps for hy-	
ing pipe .....	5.00	drants .....	10.00
One top Chapman hy-		Thirty-nine hydrant	
drant .....	5.00	nipples .....	39.00
Three hoods Chapman		Two stuffing boxes for	
hydrant .....	1.50	Boston post hydrant	1.00
Two bbs. Chapman		Six rubber valves for 4	
hydrant .....	4.00	in. Michigan hydrant	3.00
One top 4 inch Chap-		Five rubber valves for	
man hydrant .....	5.00	Eddy hydrants ....	2.50



Fourteen 6 in., 6 4 in. rubber valves for Ludlow hydrants..	10.00	Thirteen 'sets coupl- ings for 2 1-2 inch hose, old .....	4.00
Eighty-seven rubber gaskets for hydrants	17.50	1 dry tapping ma- chine and drills ...	5.00
Sixteen rubber gaskets f o r Lowrey hy- drants .....	8.00	One 2 inch boring ma- chine .....	2.00
Ten 6 in., 11 8 in. rub- ber gaskets for Bos- ton post hydrants..	10.50	Thirty bolts for flush hydrants .....	3.00
Three wastes for Bos- ton post hydrants..	1.50	One packing can ....	3.00
One waste for Lowrey hydrant .....	.50	Twenty-four assorted spindles for post hy- drants .....	50.00
One hundred fifty lbs. Norway iron .....	6.38	Three bolts for hy- drant valves .....	3.00
Six 1-4 turns f o r drinking fountains.	4.50	Four iron plates for gates .....	1.00
Eight tap screws for hydrants .....	1.00	Two hundred fifty lbs. 4 inch lead pipe...	15.00
Twelve flanges for fountains .....	3.00	Two hundred lbs. 2 inch lead pipe.....	12.00
One weight for check valve .....	.50	Seventy-five lbs. sheet lead .....	4.50
Fifteen lbs. packing for gates.....	3.00	Two wrenches for gate posts.....	.50
Thirteen wrench nuts for gate spindles...	2.00	Twenty-five handles for cellar cocks....	1.00
One set of tools for fountains .....	10.00	Forty-six 6 in. x 3-4 in. iron bolts.....	1.50
		Nine fountain backs..	4.50
		Five fountain bottoms	2.50



Ten dog trough guards . . . . .	2.50	Forty-three ft. 3-8 inch iron pipe . . . . .	1.00
Eleven aprons for fountains . . . . .	5.50	One hundred twenty ft. 1-2 in. brass pipe	10.00
Six dog troughs . . . . .	3.00	Twenty lbs. pig cop- per . . . . .	3.60
One 2 in. flange goose neck . . . . .	2.00	Twenty-three lbs. zinc	1.50
Three 20 in. manhole gaskets . . . . .	1.00	Sixty-three lbs. block tin . . . . .	20.00
Fifteen ft. 2 in. brass pipe . . . . .	1.50	Thirty-six lbs. anti- mony . . . . .	3.75
Five hundred feet 3-4 inch tin lined pipe.	150.00	Eleven diaphragms for Marine pump . . . . .	5.50
Four hundred ft. 1 in. tin lined pipe . . . . .	140.00	Two mop handles . . .	.20
Twenty ft. 2 in. lead lined pipe . . . . .	2.40	Twelve iron mauls . . .	9.00
Two hundred fifty ft. 1 1-2 in. lead lined pipe . . . . .	37.50	Three sidewalk box cleaners . . . . .	3.00
Twenty-five ft. 3 inch iron pipe . . . . .	3.50	One clapper for Mar- ine pump . . . . .	.50
Sixty ft. 2 in. iron pipe	2.50	One 18 inch monkey wrench . . . . .	1.50
Sixty ft. 1 1-4 in. iron pipe . . . . .	2.00	Five hundred lbs. old brass . . . . .	30.00
Four hundred eighteen ft. 1 in. iron pipe . .	21.00	Five lbs. blueing . . . .	.50
Forty-six ft. 1-2 inch iron pipe . . . . .	2.00	One wrench for jack:	.50
Fourteen ft. 1-4 inch iron pipe . . . . .	.50	IRON FITTINGS.	
		Fifty-one right and left elbows . . . . .	2.00
		Seven 2 in. x 1 in. y's	2.00
		Twenty-six 2 inch couplings . . . . .	3.00

Thirty 1 1-2 in. couplings . . . . .	3.50	Twelve 1 inch tees . . . . .	2.00
Ninety-three 1 inch couplings . . . . .	9.00	Two 3-4 inch tees . . . . .	.25
One hundred twenty-four 3-4 inch couplings . . . . .	12.00	Two 3-4 in. x 1-2 in. tees . . . . .	.25
Twenty-three 1 1-4 in. couplings . . . . .	2.50	Four 2 inch elbows . . . . .	1.00
Fifty-seven 1 in. x 1-2 in. couplings . . . . .	6.00	Eight 1 1-2 in. elbows . . . . .	1.50
Five 2 inch unions . . . . .	3.00	Two 1 1-2 in. x 3-4 in. elbows . . . . .	.40
Four 1 1-2 inch unions . . . . .	2.00	Sixteen 1 inch elbows . . . . .	1.30
Thirty-eight 1 inch unions . . . . .	11.50	Ten 1 inch x 1-2 inch elbows . . . . .	.90
Fifty-two 3-4 inch unions . . . . .	14.00	Sixty-nine 3-4 inch elbows . . . . .	3.50
Two 1 1-4 inch unions . . . . .	.80	Twenty-eight 3 4 in. x 1-2 in. elbows . . . . .	1.50
Five 2 inch plugs . . . . .	.25	Two 2 in. x 1 1-2 in. crosses . . . . .	.60
Fifty-five 1 inch plugs . . . . .	2.00	Three 2 inch x 1 inch crosses . . . . .	.90
Nine 3-4 inch plugs . . . . .	.30	Four 2 inch x 3-4 inch crosses . . . . .	1.20
Six 1-2 inch plugs . . . . .	.15	Four 1 1-2 in. x 1 in. crosses . . . . .	1.20
Seven 2 in. x 1 1-2 in. tees . . . . .	1.75	One 1 1-4 in. crosses . . . . .	.25
Two 1 1-2 in. x 3-4 in. tees . . . . .	.50	Fourteen 2 in. nipples . . . . .	2.10
One 1 1-2 inch tees . . . . .	.25	Fourteen 1 1-2 inch nipples . . . . .	2.00
Twelve 1 inch tees . . . . .	2.50	Twenty-five 1 inch nipples . . . . .	2.25
Two 2 in. x 3-4 in. tees . . . . .	.50	Five 3-4 inch nipples . . . . .	.40
Nine 1 1-4 in. x 3-4 in. tees . . . . .	4.00		

Two 1 1-2 in. x 1 1-4 in. bushings . . . . .	.10	Two 2 inch x 3-4 inch crosses . . . . .	.50
Ten 1 1-2 in. x 1 in. bushings . . . . .	.40	Four 1 1-2 in. x 3-4 in. crosses . . . . .	1.00
Two 1 1-4 in. x 1 in. bushings . . . . .	.10	Four 1 1-2 inch tees..	1.20
Two 1 1-2 in. x 3-4 in. bushings . . . . .	.10	Two 2 inch x 3-4 inch tees. . . . .	.60
Thirty-nine 1 in. x 3-4 in. bushings . . . . .	1.25	Four 1 1-2 in. x 1 in. tees. . . . .	1.20
Eleven 1 in. x 1-2 in. bushings . . . . .	.40	One 1 1-2 in. x 3-4 in. tees... . . . .	.30
Nine 3-4 in. x 1-2 in. bushings . . . . .	.30	One 1 inch x 3-4 inch tees. . . . .	.25
LEAD LINED FITTINGS.		TIN LINED FITTINGS.	
Nine 2 inch unions . . . . .	5.40	Sixty-one 3-4 in. coupl- ings . . . . .	7.00
Nine 1 1-2 in. unions. . . . .	5.00	Forty-two 3-4 in. x 1-2 in. couplings. . . . .	5.50
Three 2 in. x 1 1-2 in. y's. . . . .	1.50	Fourteen 1 inch tees . . . . .	3.50
Twenty-one 2 inch couplings. . . . .	4.00	Twelve 3-4 inch tees. . . . .	2.40
Four 2 in. x 1 1-2 in. couplings. . . . .	.80	Twelve 3-4 in. nipples . . . . .	2.00
Fourteen 1 1-2 inch couplings. . . . .	2.50	Twenty-seven 3-4 in. x 1-2 in. elbows . . . . .	4.00
Twenty-nine 1 inch couplings. . . . .	4.50	Twenty-five 3-4 inch elbows . . . . .	5.00
Three 2 in. 1-8 bends . . . . .	.60	Three 2 inch Mueller Corporation cocks..	25.50
Five 1 1-2 1-8 in. bends . . . . .	1.00	Seven 1 1-2 in. Mueller Corporation cocks..	49.00
Six 2 inch x 1 inch crosses . . . . .	1.50	Seven 1 1-2 in. Mueller curb cocks. . . . .	49.00

Five 2 inch Mueller curb cocks . . . . .	42.50	Eighty-five 3-4 in. half unions for iron pipe	12.75
Seven 1 1-2 in. Mueller curb cocks . . . . .	49.00	BRASS CASTINGS.	
Nineteen 3-4 in. h Mueller curb cocks.	19.00	Sixteen brass castings for Morris engine..	25.00
Twenty-seven 1 inch sidewalk cocks...	43.75	Seventy-three 3-4 in. sidewalk plugs....	18.00
Three 3-4 in. sidewalk cocks . . . . .	3.75	Thirty-two 3-4 inch cellar plugs . . . . .	8.00
Eighteen 1 in. corpora- tion cocks . . . . .	27.00	Nineteen 1 inch cor- poration plugs . . . .	8.00
Seventy-four 3-4 inch corporation cocks..	92.50	Five 1 inch sidewalk plugs. . . . .	2.50
Six 1 in. cellar cocks.	9.00	Thirty-two 3-4 inch cellar cock barrels..	8.00
Fourteen 3-4 in. cellar cocks . . . . .	17.50	Thirty 3-4 inch side- walk cock barrels..	7.50
Eighteen 1 inch stop and waste unions..	4.50	Six 1 in. corporation cock barrels.....	3.00
Eighty-one 1 in. h solder nipples.....	16.20	Thirty-six 3-4 inch x 1-2 inch elbows ...	3.60
One hundred twenty- three 3-4 in. solder nipples.....	18.50	Ninety 3-4 in. nipples	9.00
Five 1 1-4 in. x 1 in. solder nipples.....	1.00	One hundred twenty- five 1 inch nipples.	18.50
Four 1 1-2 in. solder nipples.....	1.00	Sixty-one 1 in. x 3-4 in. nipples . . . . .	9.00
Forty-nine 3-4 inch half unions for lead pipe.....	7.50	Thirty-seven 3-4 inch elbows . . . . .	3.70
		One hundred seven- teen 1 inch smooth tail pieces . . . . .	6.00

Fifty-nine 1 in. washers.....	3.00	Five 3-4 inch Crown meters .....	95.00
One hundred seventy-five 3-4 in. washers	5.50	One 5-8 inch Crown meter .....	12.00
Four valves for Worthington engine ..	20.00	Two 5-8 inch Nash meters .....	19.00
Three 50 ft. tape lines	10.50	One 3-4 in. Nash meter	13.50
Six 1-2 twist drills...	.90	Nine 3-4 inch Union meters .....	162.00
One box crayons ....	.10	One 5-8 inch Union meter .....	12.00
Half box lava tips...	.25	Three 3-4 inch Hersey meters .....	40.50
One pair cut nippers.	1.25	Two 5-8 inch Hersey meters .....	19.00
Three 3-4 in. dies, new	3.00	Two 3-4 inch Trident meters .....	27.00
Three 1 in. dies, new.	3.75	Seven 5-8 in. Trident meters .....	66.50
Twelve clamps for 3-4 inch hose .....	1.00	Seven 5-8 in. Lambert meters .....	66.50
Eleven hack saw blades. ....	.50	Five 3-4 in. Columbia meters .....	60.00
Eight small files.....	.75	Ten 5-8 in. Columbia meters .....	80.00
Six 6 inch half round files .....	1.20	One 3 in. Worthington meter .....	40.00
Nine 12 inch mill files	3.00	Three 2 in. Worthington meters .....	75.00
Six 12 in. half round files .....	2.00	Three 1 1-2 inch Worthington meters	60.00
Four lbs. sealing wax	.40		
Five belt laceings....	.10		
One thermometer....	.50		
One 2 inch Crown meter. ....	65.00		
Two 1 1-2 inch Crown meters .....	112.00		
Six 1 in. Crown meters	162.00		



One 1 in. Worthington meter . . . . .	12.00	Three bottoms for 3-4 inch Trident meters . . . . .	.75
Thirty-seven covers for 3-4 inch Crown meters . . . . .	55.50	Twenty-five clocks for Worthington meters . . . . .	6.25
Five covers for 1 inch Crown meters . . . . .	8.75	Nine tops and ratchets for Worthington meters . . . . .	2.00
Twelve covers for 5-8 inch Crown meters . . . . .	15.00	Seventy-five sets 3-4 in. meter couplings . . . . .	30.00
Six covers for 5-8 in. Nash meters . . . . .	7.50	Forty-four sets 5-8 in. meter couplings . . . . .	15.20
Three covers for 3-4 inch Nash meters . . . . .	4.50	Six sets 1 inch meter couplings . . . . .	3.00
Three bottoms for 3-4 in. Empire meters . . . . .	4.50	Two doz. Gilbert gauge glass preservers . . . . .	1.00
Five bottoms for 5-8 inch Trident meters . . . . .	1.25		

***Property and Tools at Boulevard New Wells.***

One portable engine and boiler . . . . .	700.00	Six Stillson wrenches . . . . .	3.00
One centrifugal pump . . . . .	200.00	Two pair large pipe tongs . . . . .	10.00
One force pump . . . . .	35.00	One small chain tongs . . . . .	3.00
One work bench . . . . .	5.00	Five caulking hammers . . . . .	5.00
One vise . . . . .	1.50	Seven large chain tongs . . . . .	35.00
One 12 inch Stillson wrench . . . . .	.50	Five striking hammers . . . . .	6.00
Three monkey wrenches . . . . .	2.00		



One frost hammer...	1.50	Seven pairs rubber	
One pipe cutter.....	3.00	boots .....	21.00
Seventeen cold chisels	8.50	One clip. ....	1.50
Two stone hammers...	2.50	Three crowbars.....	4.50
One machinist's hammer.....	1.25	Seventeen lanterns...	6.00
Two 2 1-2 inch die		One 5 gal. oil can ..	.50
stocks and dies ...	15.00	Four pails.....	2.00
Two 1 1-2 inch die		Three tag ropes ....	1.50
stocks and dies ...	2.50	Twenty-five ft. 1 1-2	
Two 1 inch die stocks	2.00	inch rope.....	.75
Two well starters....	50.00	Three wooden mauls.	3.00
Two long toms . ...	200.00	Seven iron mauls ...	4.75
Six Pitcher pumps. . .	30.00	Eight wheelbarrows..	8.00
Three spirit levels...	3.00	One coal scoop .....	1.00
One small oil can....	.10	Fifty-two shovels....	37.00
One lead furnace....	5.00	Fifty-five picks.....	41.25
One lead pot.....	2.00	One small tool box...	3.00
Three ladders.....	3.00	Two large tool boxes.	10.00
One 24 inch hoisting		Six hundred thirteen	
jack ....	5.00	lbs. sheet rubber	
Four hand saws. . . .	3.00	packing .....	105.00
Two derricks complete.....	250.00	Nine hundred forty-	
One set iron falls and		four ft. 2 in. x 7 in.	
chain .....	25.00	x 16 in. lumber ..	18.00
One set rope falls ...	15.00	Eight hundred eighty	
One file ...	.30	ft. 2 in. x 9 in. x 16	
Two ditch lines.....	.50	in. lumber ....	16.00
One axe .....	1.00	Two thousand three	
Five steel wedges ...	5.00	hundred thirty-three	
		ft. 4 inch x 4 inch	
		lumber.....	42.00

One hundred lbs. red lead .....	5.00	Five thousand two hundred fifty lbs. coal .....	15.00
Ten gals. black varnish .....	3.00	Three tons pig lead .....	36.00
Ten gals. kerosene oil	1.00	Sixty-six well strain-ers .....	396.00
One hundred ninety-seven lbs. coke ....	1.50		

***Property at Water Office, City Hall.***

Two roll top desks at \$20.00 .....	\$40.00	Twelve cane seat chairs at 3.00 .....	36.00
Two standing desks at 20.00 and 10.00 ....	30.00	Eight swivel desk chairs at 1.50 .....	12.00
One double flat desk at 20.00 .....	20.00	Two high chairs at 1.50 .....	3.00
One 3-place Inspector's desk .....	15.00	Two stools at 50c ....	1.00
One 2-place Inspector's desk .....	10.00	One step chair .....	.50
Two single desks at 10.00 .....	20.00	One settee ....	1.00
Two oak tables at 15.00	30.00	One bookcase .....	10.00
One typewriting machine and cabinet ..	50.00	Two water gauges and clocks .....	50.00
One small table .....	2.00	Two thermometers ...	.50
One vault table .....	1.50	One clock ....	6.00
Two swivel upholstered chairs at 5.00	10.00	Two table gas lamps at 1.50 .....	3.00
Six upholstered chairs at 5.00 .....	30.00	Thirty-three framed pictures and plans.	10.00
		Two rugs at 3.00 ...	6.00
		One set street tools, picks and wrenches	3.00

Two earthen cuspidores . . . . .	.50	One hair brush . . . . .	.50
Six brass cuspidores . . . . .	3.00	One clothes brush . . . . .	.50
Six waste paper baskets at 50c . . . . .	3.00	One match safe (galvanized iron) . . . . .	.50
One shovel (historic) . . . . .	1.00	One fire insurance map of city (old) . . . . .	1.00
Two mirrors at 1.25 . . . . .	2.50	One atlas of city . . . . .	10.00
One letter copy press . . . . .	6.00	Five tin boxes . . . . .	2.50
Two umbrella racks . . . . .	1.50	One Standard dictionary . . . . .	10.00
Twenty ink stands . . . . .	2.00	One photograph album . . . . .	6.00
Two pen racks . . . . .	.25	One revolving book case . . . . .	10.00
Four book rests . . . . .	6.00	One card index cabinet . . . . .	10.00
Set tools — 2 screw drivers, pincers, 1 plane, 1 saw, 1 chisel, hammer, wrench . . . . .	3.00	One oak cabinet . . . . .	40.00
Three glass mugs . . . . .	.15	One hundred sixteen city meters in use . . . . .	908.50
Bootblackening outfit . . . . .	.25		

SIZES.	4 in.	6 in.	8 in.	10 in.	12 in.	16 in.	20 in.	24 in.	30 in.	
Length of Pipe -	104	27	672	365	169	--	20	31	20	\$12,994 47
Sleeves - - -	5	1	3	5	4	7	3	3	9	349 00
Caps - - - -	55	38	54	1	12	2	1	1	--	259 20
Plugs - - -	10	36	34	--	2	1	--	--	--	29 80
Curves, 1-4 - -	--	--	5	5	12	5	--	--	--	289 60
Curves, 1-8 - -	4	12	6	8	2	9	5	4	--	404 80
Curves, 1-16 - -	2	11	5	2	8	7	11	1	2	448 60
Offsetts - - -	--	--	3	--	1	--	--	--	--	19 60
Gates - - -	3	4	5	3	1	--	--	--	--	251 60

SIZES.			4 x 4	6 x 2	6 x 4	6 x 6	8 x 4	8 x 6	8 x 8	10 x 4	10 x 6	10 x 8	10 x 10	12 x 4	12 x 6	12 x 8	12 x 10	12 x 12	16 x 6	16 x 8	16 x 10	16 x 12	16 x 16	20 x 6	20 x 12	24 x 6		
Branches	-	-	11	-	7	3	9	9	21	1	3	10	8	-	2	12	10	10	5	5	4	6	4	1	1	1	\$	1,110 80
Crosses	-	-	6	-	9	18	6	6	18	1	7	7	8	-	12	13	9	8	10	9	6	5	6	-	-	-		1,454 80
Reducers	-	-	-	-	1	-	5	9	-	3	7	6	-	2	2	6	9	-	-	-	4	5	-	-	-	-		234 20
Smith Gates and Sleeves	-	-	-	1	1	2	3	3	-	-	1	1	-	2	1	1	-	-	1	-	-	-	-	-	-	-		399 32

## REAL ESTATE IN WATER WORKS PLANT.

ACRES	SQUARE FEET.		
35 1-2	- - -	Cushing farm and buildings at Boulevard extension -	\$6,000 00
23	1,038 616	with buildings - - - - -	21,705 48
22.40	974,557	at Pumping Station No. 4, Boulevard - - -	10,150 00
5.34	232,966	at Filter Gallery - - - - -	4,391 57
4.80	187,932	at Conduit and Tunnel - - - - -	30,455 37
6 78	295,757	at Pipe Conduit - - - - -	15,067 99
1.17	51,101	at Pumping Station No. 1 and yard, Hampshire, W. Sixth	12,327 25
0.19	8,113	at Superintendent's residence, West Sixth street -	2,286 20
14.96	651,600	Low Service Reservoir, Beacon street - - -	28,865 21
2.00	{ 54,730	High Service Reservoir, Tenth street, in Lowell -	2,500 00
	{ 32,470	High Service Reservoir, Tenth street, in Dracut -	
2.98	64,251	over Delivery Pipe - - - - -	3,180 70
38.67	1,684,930	at Pumping Station No. 2, Plain and Chelmsford streets	25,497 00
35.15	1,531,109	at Pumping Station No. 3, in Chelmsford - - -	3,300 44
2.65	115,646	at Pumping Station No. 3, in Lowell - - -	500 00
		dwelling house, at reservoir - - - - -	1,200 00
		Pumping Station No. 1, West Sixth street - - -	97,000 00
		Stable and Shop, Hampshire street - - - - -	17,000 00
		Storehouse and Shed - - - - -	2,000 00
		Pumping Station No. 2, Chelmsford and Plain - - -	2,000 00
		Pumping Station No. 3, in Chelmsford - - -	1,000 00
		Pumping Station No. 4, at Boulevard - - - - -	6,000 00
		Superintendent's house, West Sixth street - - -	1,800 00
		"Cook Plant" (P. S. No. 2,) Wells, Mains, &c - - -	25,000 00
		"Hydraulic Plant" (P. S. No. 3,) Wells, Mains, &c - - -	59,247 00
		"Boulevard Plant" (P. S. No. 4,) Wells, Mains, &c - - -	66,577 65



Gate houses	$\left\{ \begin{array}{l} \text{Inlet Chamber} \\ \text{Terminal Chamber} \\ \text{Reservoir Chamber} \end{array} \right\}$	.....	\$	7,243 13
Brick Conduit and Tunnel, cost.....				185,058 71
Filter Gallery .....				120,812 42
Twenty four inch pipe in Gallery .....				5,349 97
Filter Basin.....				20,725 26
Sixteen inch gate at Chamber .....				50 00
Gate House at Beaver Brook.. .....				150 00
Reservoir and connection, Low Service...				99,935 04
Reservoir and connection, High Service....				19,159 63
Canal crossings, truss, East Merrimack Street				300 00
Bridge crossings ... ..				500 00
River crossings, 30 inch pipe, extra .....				10,000 00
“ “ 24 inch pipe ... ..				9,988 58
“ “ 12 inch pipe .....				15,512 25
Fences, Walls and Embankments .....				4,300 00
Roads, Bridges, Culverts, Etc.....				5,500 00
Pipe Conduit lines, 30 inch old line.....				43,929 60
“ “ “ 30 inch new line ....				28,655 93
“ “ “ 48 inch new in Tunnel				
section.....				5,200 00
Force Mains, 24 inch and 30 inch.....				58,884 34
Distribution Main, as per schedule.....				467,449 40
Stop gates and boxes, as per schedule....				27,212 40
Hydrants, as per schedule.....				58,950 00
Services and Boxes.....				208,620 00



# REPORT OF CITY ENGINEER.

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OFFICE OF CITY ENGINEER,

LOWELL, MASS., Jan. 1, 1901.

*To the Lowell Water Board:—*

GENTLEMEN — I have the honor to submit the Twenty-eight Annual Report for the year ending December 31st, 1900:

## PUMPAGE.

Total net Pumpage for 1900 .....	2,884,271,028	Gals.
Total net Pumpage for 1899 .....	2,659,052,210	"
An increase in 1900 of .....	225,218,818	"

## CONSUMPTION.

Consumption for 1900 .....	2,881,074,794	"
Consumption for 1899 .....	2,659,464,909	"
An increase in 1900 of .....	221,609,885	"
High Service Pumpage for 1900 .....	65,472,694	"
High Service Pumpage for 1899 .....	50,590,456	"
An increase in 1900 of .....	14,882,238	"

The cost of Low Service Pumpage was Thirteen Dollars and Ninety Cents (\$13.90) per million gallons, a decrease of Eighty-three Cents (\$0.83) per million gallons from the cost of the same in 1899. This decrease is mostly due to the use of the Worthington High Duty Engine for the greater part of the work at Station No. 1.

The cost of pumpage from Low Service to High Service was Ten Dollars and Twenty-one Cents (\$10.21) per million gallons, which added to the cost of Low Service Pumpage, Thirteen Dollars and Ninety Cents (\$13.90) per million gallons, makes the total cost of High Service Pumpage Twenty-four Dollars and Eleven Cents (\$24.11) per million gallons; a decrease of One Dollar (\$1.00) per million gallons from the cost of the same in 1899.

At Station No. 3 no water has been pumped directly into the distributing mains, the quantity pumped there in January, 31,421,136 gallons, having been repumped at Station No. 2. In addition to this quantity it is estimated that 181,100,000 gallons were obtained from the wells at Station No. 3 and pumped at Station No. 2.

The greatest quantity pumped in seven consecutive days during the year was 64,445,484 gallons, which was pumped in the week beginning July 9th and ending July 15th.

The greatest quantity pumped in one day during the year was 9,495,963 gallons, on July 15th.

TABLE SHOWING QUANTITY PUMPED EACH MONTH AT THE SEVERAL STATIONS DURING THE YEAR 1900.

MONTHS.	PUMPING STATIONS — DRIVEN WELLS.				STATION No. 1 — WEST SIXTH STREET.					Grand Totals.	Net Totals.
	No. 2.	No. 3.	No. 4.	Net Totals	Worth'ton High Duty	Worth'ton Duplex.	Morris.	Totals, Low Service	High Service.		
January . . . . .	87,286,976	*31,421,136	148,144,230	235,431,206	149,460,000			149,460,000	3,150,168	419,462,510	236,746,976
February . . . . .	74,998,720		150,234,030	225,233,350	133,080,000		16,968,640	150,048,640	2,401,812	377,683,802	225,047,360
March . . . . .	89,314,240		160,210,908	249,525,148	157,166,250		1,575,040	158,741,290	3,158,792	411,425,230	248,065,530
April . . . . .	88,759,808		163,403,058	252,162,866	142,603,125		1,262,080	143,865,205	2,712,864	398,740,935	232,625,013
May . . . . .	92,902,016		154,464,804	247,366,820	105,476,625	35,267,150	3,764,480	144,508,255	3,169,180	395,044,255	237,410,271
June . . . . .	57,686,720		182,825,838	240,512,558	182,350,875			182,350,875	6,703,956	429,567,389	240,037,595
July . . . . .	75,964,992		198,043,404	274,008,396	197,229,375			197,229,375	10,043,880	481,281,651	273,194,367
August . . . . .	63,034,112		192,581,822	255,615,934	192,028,125			192,028,125	11,323,900	458,967,959	255,062,237
September . . . . .	58,727,576		185,649,828	244,377,404	186,418,125			186,418,125	11,144,588	441,940,117	245,145,701
October . . . . .	39,860,864		178,901,892	218,762,756	180,930,750			180,930,750	5,904,346	405,597,852	220,791,614
November . . . . .	50,961,280		184,944,084	235,905,364	175,591,125			175,591,125	2,826,054	414,322,543	226,552,405
December . . . . .	62,707,584		188,104,644	250,812,228	180,894,375			180,894,375	2,933,154	434,639,757	243,601,959
Totals . . . . .	842,204,888	*31,421,136	2,087,509,142	2,929,714,030	1,983,228,750	35,267,150	23,570,240	2,042,066,140	65,472,694	5,068,674,000	2,884,271,028
							In 1899=	1,596,948,580	50,590,456	4,376,805,306	2,659,052,210
							Increase in 1900	445,117,560	14,882,238	691,868,694	225,218,818

\* Repumped at Station No. 2.

TABLE SHOWING SOURCE OF SUPPLY, QUANTITY PUMPED AND COST AT THE SEVERAL STATIONS DURING THE YEAR 1900

PUMPING STATIONS.		SOURCE OF SUPPLY—WELL WATER.				COST.	
		169 driv'n wells to June 1, 1900. 221 driv'n wells from June 1, 1900, to Jan. 1, 1901, at Paw'kt Boulevard.	90 driven wells at City Farm.	130 driven wells in Chelmsford, Mass.	Distributing Mains of Low Service System.	Totals in U. S. Gallons.	Totals.  Per million Gallons.
No. 1 (West Sixth Street)	- - -						
Low Service	- - -	2,042,066,140				2,042,066,140	\$13,344 53
High Service	- - -				65,472,694	65,472,694	668 62
No. 2 (Cook Wells)	- - -		842,204,888			842,204,888	13,469 31
No. 3 (Hydraulic Wells)	- - -			31,421,136		31,421,136	511 57
No. 4 (Boulevard Wells)	- - -	2,087,509,142				2,087,509,142	12,782 23
Total Pumpage	- - -					5,068,674,000	6 12 - -
Deduct quantity Pumped Twice	- - -						
At No. 4, Repumped at No. 1	- - -	2,087,509,142					
At No. 3, Repumped at No. 2	- - -			31,421,136	65,472,694	2,184,402,972	
Repumped by High Service	- - -						
Net Pumpage	- - -					2,884,271,028	\$40,776 26
Exclusive of High Service	- - -						13 90 - -
Total Cost High Service Pumpage	- - -						24 11 - -



The following tables showing the performance of the engines at Station No. 1 on West Sixth Street, depth and quantity of water in reservoir, average temperature of air and water, and the average monthly and daily consumption of water, have been calculated and compiled from the records of the Engineer and Gatekeeper.

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH DUTY ENGINE FOR

EACH MONTH DURING THE YEAR 1900.

MONTHS.	No. of days pumping.	Average No. of hours pumping per day.	No. of hours pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head, including friction in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. gals. of water pumped into reservoir per total coal consumed.	Duty in lbs. with 100 lbs. coal used in pumping only; no deduction for ashes or clinkers.	Duty on total coal consumed; no deduction for ashes or clinkers.
January	-	23-58	743-00	398,560	8.94	164.04	149,460,000	4,821,290	612	84,239,596	83,721,865
February	-	22-36	587-30	354,880	10.07	164.28	133,080,000	5,118,462	628	87,366,082	85,924,060
March	-	23-37	732-00	419,110	9.54	164.08	157,166,250	5,069,879	654	89,488,224	89,488,224
April	-	23-18	699-00	380,275	9.07	163.94	142,603,125	4,753,437	629	86,299,240	85,956,600
May	-	22-18	535-15	281,271	8.76	163.92	105,476,625	4,394,859	625	86,350,706	85,328,000
June	-	23-19	699-30	486,269	11.59	163.79	182,350,875	6,078,362	715	97,762,705	97,532,867
July	-	23-58	743-00	525,945	11.80	163.74	197,229,375	6,362,238	749	102,794,242	102,247,529
August	-	24-00	744-00	512,075	11.47	163.68	192,028,125	6,194,456	769	104,851,904	104,851,904
September	-	23-58	719-00	497,115	11.52	163.92	186,418,125	6,213,937	741	102,178,447	101,296,519
October	-	23-17	698-30	482,482	11.51	163.94	180,930,750	6,031,25	742	101,357,313	101,357,313
November	-	23-36	708-00	468,243	11.02	164.26	175,591,125	5,853,037	680	93,409,787	93,048,213
December	-	23-56	742-00	482,385	10.84	163.49	180,894,375	5,835,302	662	90,232,687	90,232,687
Totals and Averages	355	23-31	8350-45	5,288,510	10.56	163.91	1,983,228,750	5,586,560	687	94,271,109	93,844,283

TABLE SHOWING WORK DONE WITH WORTHINGTON DUPLEX ENGINE FOR  
EACH MONTH DURING THE YEAR 1900.

MONTHS.	No. of days pumping.	Average No. of hours pumping per day.	No. of hours pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head, including friction in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. gals. of water pumped into reservoir per lb. of total coal consumed.	Duty in lbs. with 100 lbs. coal used in pumping only; no deduction for ashes or clinkers.	Duty on total coal consumed; no deduction for ashes or clinkers.
January -	-	-	-	-	-	-	-	-	-	-	-
February -	-	-	-	-	-	-	-	-	-	-	-
March -	-	-	-	-	-	-	-	-	-	-	-
April -	-	-	-	-	-	-	-	-	-	-	-
May -	8	23-07	185-00	113,765	10 25	163.80	35,267.150	4,408.394	382	52,532,602	52,190,916
June -	-	-	-	-	-	-	-	-	-	-	-
July -	-	-	-	-	-	-	-	-	-	-	-
August -	-	-	-	-	-	-	-	-	-	-	-
September -	-	-	-	-	-	-	-	-	-	-	-
October -	-	-	-	-	-	-	-	-	-	-	-
November -	-	-	-	-	-	-	-	-	-	-	-
December -	-	-	-	-	-	-	-	-	-	-	-
Totals and Averages	8	23-07	185-00	113,765	10.25	163.80	35,267.150	4,408.394	382	52,532,602	52,190,916

TABLE SHOWING WORK DONE WITH MORRIS ENGINE (BEAM AND FLY WHEEL)

FOR EACH MONTH DURING THE YEAR 1900.

MONTHS.	No. of days pumping.	Average No. of hours pumping per day.	No. of hours pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head, including friction in feet.	Quantity pumped in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. gals. of water pumped into reservoir per lb. total coal consumed.	Duty in lbs. 1 ft. high coal used in pumping only; no deduction for ashes or clinkers.	Duty on total coal consumed; no deduction for ashes or clinkers.
January	-										
February	-	13-02	78-15	53,027	11.29	160.74	16,968,640	2,828,107	336	44,983,103	44,983,103
March	-	2-19	9-15	4,922	8.87	161.12	1,575,040	393,760	544	72,978,712	72,978,712
April	-	3-10	9-30	3,944	6.92	160.62	1,262,080	420,693	543	72,632,383	72,632,383
May	-	5-50	17-30	11,764	11.20	161.65	3,764,480	1,254,827	616	82,962,115	82,962,115
June	-										
July	-										
August	-										
September	-										
October	-										
November	-										
December	-										
Totals and Averages	16	7-09	114-30	73,657	10.72	160.98	23,570,240	1,473,140	381	51,110,400	51,110,400

TABLE SHOWING AMOUNT OF COAL USED FOR WORTH-  
INGTON HIGH DUTY ENGINE AT PUMPING STATION  
DURING THE YEAR 1900.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pump- ing, in lbs.	For banking fires, in lbs.	Total per month, in lbs.
January - - -	1,500	242,556	....	244,056
February - - -	2,300	208,549	1,200	212,049
March - - -	....	*240,161	....	240,161
April - - -	300	225,767	600	226,667
May - - -	2,000	166,869	...	168,869
June - - -	.....	254 610	600	255,210
July - - -	1,400	261,825	....	263,225
August - - -	.....	249,826	....	249,826
September - -	2,170	249,238	....	251,408
October - - -	.....	243,891	....	243,891
November - -	1,000	257,333	....	258,333
December - -	.....	273,153	....	273,153
Totals - - -	10,670	2,873,778	2,400	2,886,848

\* { 182,188 coal.  
82,818 coke.

TABLE SHOWING AMOUNT OF COAL USED FOR WORTH-  
INGTON DUPLEX ENGINE AT PUMPING STATION  
DURING THE YEAR 1900.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pump- ing, in lbs.	For banking fires, in lbs.	Total per month, in lbs.
January - - - -	.....	.....	....	.....
February - - - -	.....	.....	....	.....
March - - - - -	.....	.....	....	.....
April - - - - -	.....	.....	....	.....
May - - - - - -	.....	91,645	600	92,245
June - - - - - -	.....	.....	....	.....
July - - - - - -	.....	.....	....	.....
August - - - - -	.....	.....	....	.....
September - - -	.....	.....	....	.....
October - - - - -	.....	.....	....	.....
November - - - -	.....	.....	....	.....
December - - - -	.....	.....	....	.....
Totals - - - - -	.....	91,645	600	92,245



TABLE SHOWING AMOUNT OF COAL USED FOR MORRIS  
ENGINE AT PUMPING STATION DURING  
THE YEAR 1900.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pump- ing, in lbs.	For banking fires, in lbs.	Total per month, in lbs.
January - - - - -	.....	.....	....	.....
February - - - - -	.....	50,533	....	50,533
March - - - - -	.....	2,898	....	2,898
April - - - - -	.....	2,326	....	2,326
May - - - - -	.....	6,113	....	6,113
June - - - - -	.....	.....	....	.....
July - - - - -	.....	.....	....	.....
August - - - - -	.....	.....	....	.....
September - - - - -	.....	.....	....	.....
October - - - - -	.....	.....	....	.....
November - - - - -	.....	.....	....	.....
December - - - - -	.....	.....	....	.....
Totals - - - - -	.....	61,870	....	61,870

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH SERVICE ENGINE  
FOR EACH MONTH DURING THE YEAR 1900.

MONTHS.	No. of days pump- ing.	Average No. of hours pumping per day.	No. of hours pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head including friction in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. gals. of water pumped into reser- voir per lb. total coal consumed.	Coal in lbs. used when pumping.
January	-	17-32	210-30	225,012	17.82	69.44	3,150,168	262,514	300	10,499
February	-	15-09	151-30	171,558	18.87	69.44	2,401,812	240,181	300	8,006
March	-	17-05	188-00	225,628	20.00	69.44	3,158,792	287,163	300	10,526
April	-	17-33	158-00	193,776	20.44	69.44	2,712,864	301,429	300	9,042
May	-	18-08	199-30	226,370	18.91	69.44.	3,169,180	288,107	300	10,563
June	-	23-39	686-00	478,854	11.63	92.59	6,703,956	231,171	298	22,470
July	-	24-00	744-00	717,420	16.07	92.59	10,043,880	323,996	300	33,475
August	-	24-00	744-00	808,850	18.12	92.59	11,323,900	365,287	300	37,739
September	-	24-00	720-00	796,042	18.43	92.59	11,144,588	371,486	300	37,147
October	-	22-07	354-00	421,739	19.86	83.91	5,904,346	369,022	301	19,604
November	-	18-49	207-00	201,861	16.25	69.44	2,826,054	256,914	300	9,417
December	-	18-48	188-00	209,511	18.57	69.44	2,933,154	293,315	300	9,778
Totals and Averages	211	21-34	4550-30	4,676,621	17.13	83.82	65,472,694	310,297	300	218,266

PUMPING STATION NO. 1, WORTHINGTON HIGH DUTY  
ENGINE.—RUNNING EXPENSES FOR THE YEAR 1900.

---

Pay of engineers and firemen.....	\$5,795 61
183 1484-2000 tons of coal (Cumberland, 1899), at \$3.379..	620 86
306 635-2000 tons of coal (Cumberland, 1900), at \$3.379..	1,035 05
539 1523-2000 tons of coal (Cumberland, 1900), at \$4.17..	2,250 81
384 1233-2000 tons of coal (Cumberland, 1900), at \$4.375..	1,682 70
41 818-2000 tons of coke, at \$4.795.....	198 56
Electric light.....	240 17
Gas for lighting works ....	136 02
489.27 gallons of cylinder oil, at 0.467—.....	228 48
151.81 gallons of engine oil, at 0.316- -.....	47 98
49.75 pounds of packing, at 1.09—.....	54 22
360.49 pounds of cotton waste, at 0.065.....	23 43
32 pounds of tallow, at 0.045.....	1 44
Repairs on engine .....	12 90
Repairs on boilers .....	339 35
Tools.....	4 30
Sundries .....	56 27
<hr/>	
Total.....	\$12,728 15

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Cost of pumping water into reservoir per million gallons, \$6.42—

Cost of pumping water one foot high per million gallons, .03 91-100-|-

PUMPING STATION NO. 1, WORTHINGTON DUPLEX ENGINE.  
—RUNNING EXPENSES FOR THE YEAR 1900.

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Pay of engineers and firemen . . . . .	\$123 31
46 245-2000 tons of coal (Cumberland, 1900), at \$4.17 . . . . .	192 33
Electric light . . . . .	5 11
Gas for lighting works . . . . .	2 89
10.41 gallons of cylinder oil at 0.467— . . . . .	4 86
3.23 gallons of engine oil, at 0.316— . . . . .	1 02
7.67 pounds of cotton waste, at 0.065 . . . . .	50
Repairs on boilers . . . . .	7 22
Sundries . . . . .	1 20
<hr/>	
Total . . . . .	\$338 44

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Cost of pumping water into reservoir per million gallons, \$9.60—  
Cost of pumping water one foot high per million gallons, 0.05 86-100—

PUMPING STATION NO. 1, MORRIS ENGINE.—RUNNING  
EXPENSES FOR THE YEAR 1900.

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Pay of engineers and firemen .....	\$61 65
22 287-2000 tons of coal (Cumberland, 1900), at \$3.379.....	74 82
8 1583-2000 tons of coal (Cumberland, 1900), at \$4.17 .....	36 66
Electric light.....	2 55
Gas for lighting works.....	1 45
5.20 gallons of cylinder oil, at 0.467—.....	2 43
1.61 gallons of engine oil, at 0.316—.....	51
18 pounds of packing, at 0.50 .....	9 00
3 83 pounds of cotton waste, at 0.065.....	25
Repairs on engine .....	84 41
Repairs on boilers .....	3 61
Sundries .....	60
<hr/>	
Total .....	\$277 94

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Cost of pumping water into reservoir per million gallons, \$11.79-|-

Cost of pumping water one foot high per million gallons, 0.07 32-100-|-

RESERVOIR, BEACON STREET, 1900.

MONTHS.	Depth in Feet.	Quantity in U. S. Gallons.	Temperature in Degrees	
			Of Water.	Of Air.
January - - - - -	18.81	28,518,737	39.19	27.37
February - - - - -	19.52	29,712,500	38.64	27.00
March - - - - -	19.55	29,750,325	38.87	31.61
April - - - - -	19.57	29,783,947	43.58	47.92
May - - - - -	19.53	29,723,708	46.31	55.44
June - - - - -	19.16	29,101,771	49.02	70.78
July - - - - -	17.76	26,774,752	60.39	75.90
August - - - - -	19.25	29,252,449	65.47	72.41
September - - - - -	19.48	29,639,686	66.65	65.68
October - - - - -	19.62	29,877,873	64.05	55.41
November - - - - -	18.12	27,366,919	55.07	43.06
December - - - - -	19.02	28,862,139	46.00	31.26



TABLE SHOWING THE AVERAGE MONTHLY AND DAILY  
CONSUMPTION OF WATER FOR THE YEAR 1900.

MONTHS.	GALLONS PER MONTH.	GALLONS PER DAY.
January . . . . .	232,846,062	7,511,163
February . . . . .	227,567,723	8,127,419
March . . . . .	248,747,552	8,024,115
April . . . . .	229,976,655	7,665,888
May . . . . .	239,782,241	7,734,911
June . . . . .	241,139,799	8,037,993
July . . . . .	269,579,397	8,696,110
August . . . . .	256,324,315	8,268,526
September . . . . .	244,165,072	8,138,836
October . . . . .	228,975,219	7,386,297
November . . . . .	218,789,913	7,292,997
December . . . . .	243,180,846	7,844,543
Totals and averages .	2,881,074,794	7,893,356

## SUMMARY OF STATISTICS.

## REPORT OF 1900.

In accordance with the recommendations of the New England Water Works Association.

## LOWELL WATER WORKS, MIDDLESEX COUNTY, MASS.

Population by census of 1900, 94,969.

Date of construction, 1870 to 1873.

Date of construction, High Service, 1881.

Date of construction, Driven Wells, 1893 to 1901.

Source of supply — two hundred twenty (220) driven wells in the valley of River Meadow Brook, and two hundred twenty-one (221) driven wells at Pawtucket Boulevard.

Mode of supply, pumping to reservoir and pumping direct.

## PUMPING.

## 1. Builders of pumping machinery:

## AT STATION NO. 1.

One engine, capacity 5,000,000 gals. in 24 hours,  
Henry G. Morris.

One engine, capacity 5,000,000 gals. in 24 hours,  
Henry R. Worthington.

One engine, capacity 10,000,000 gals. in 24 hours,  
Henry R. Worthington.

One engine, capacity 500,000 gals. in 24 hours,  
Henry R. Worthington.

## AT STATION NO. 2, TEMPORARY PUMPS.

- One engine, capacity 3,000,000 gals. in 24 hours,  
The Dean Steam Pump Co.
- One engine, capacity 3,000,000 gals. in 24 hours,  
The Dean Steam Pump Co.

## AT STATION NO. 3, TEMPORARY PUMPS.

- One engine, capacity 3,000,000 gals. in 24 hours,  
Henry R. Worthington.
- One engine, capacity 3,000,000 gals. in 24 hours,  
Henry R. Worthington.

## AT STATION NO. 4, TEMPORARY PUMPS.

- One engine, capacity 3,000,000 gals. in 24 hours,  
Knowles Steam Pump Works.
- One engine, capacity 3,000,000 gals. in 24 hours,  
Knowles Steam Pump Works.

## 2. Description of coal used:

- (b) Kind, bituminous.
- (c) Size, broken.
- (d) Brand, Cumberland.
- (e) Price per gross ton delivered, \$4.60 -|-.

3. Coal consumed for the year, in pounds, 10,684,561  
(2,982,990, Station No. 1.)

## 4. Wood consumed for the year, in pounds,

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= coal in lbs. = 2,400, Station No. 1.

3

5. Total fuel consumed for the year in pounds, 2,985,390,  
Station No. 1.

6. Total pumpage for the year, in gallons, 2,884,271,028,  
(2,042,066,140, Station No. 1.)
7. Average static head against which pumps work, 156.14,  
Station No. 1.
8. Average dynamic head against which pumps work,  
163.88, Station No. 1.
9. Number of gallons pumped per pound of coal, 275,  
(685, Station No. 1.)
10. Duty in foot pounds per 100 pounds of coal, using  
the following formula, making no deduction for  
starting or banking fires, or heating building:—

$$\text{Duty} = \frac{\text{Gallons pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}} = 93,489,048, \text{ Station No. 1.}$$

COST OF PUMPING FIGURED ON PUMPING STATION EXPENSES OF  
\$13,344.53, STATION NO. 1.

11. Per million gallons raised against average dynamic  
head (8) into reservoir, \$6.53 —, Station No. 1.
12. Per million gallons raised one foot high (dynamic),  
\$0.03 99-100.

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Analyses of water from the driven well plants,  
Merrimack River and Station No. 1, have been made each  
month by the State Board of Health, a record of which  
is annexed.

Respectfully submitted,

GEORGE BOWERS,

City Engineer.

COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH, LOWELL.  
WATER ANALYSIS.—Merrimack River.

(PARTS IN 100,000.)

NO.	DATE OF		APPEARANCE.			ODOR.		RESIDUE ON EVAPORATION.			AMMONIA.			Chlorine.	NITROGEN AS		Hardness.	Iron.	Oxygen Consumed.
	Collec- tion.	Exam- ination.	Turbid- ity.	Sediment.	Color	Cold.	Hot.	Total	Loss in light.	Fixed.	Free.	Total	In so- lution.	In sus- pension.	Nitrates.	Nitrites.			
29,956	Jan. 16	1900. 17	Decided.	Slight.	.15	None.	Faintly Vegetable.	3.90	1.30	2.60	.0086	.0214	.0166	.0048	.0060	.0002	0.8	-	.40
30,243	Feb. 20	21	Very Slight.	Slight.	.37	None.	Faintly Vegetable.	3.05	1.50	1.55	.0024	.0190	.0166	.0024	.0020	.0001	0.8	-	.66
30,639	Mar. 20	21	Slight.	Cons.	.32	Very Faintly Unpleasant.	Faintly Unpleasant.	3.05	1.25	1.80	.0010	.0170	.0144	.0026	.0050	.0001	0.5	-	.48
31,140	Apr. 30	May 2	Slight.	Cons.	.28	Faintly Vegetable.	Distinctly Vegetable.	3.15	1.10	2.05	.0008	.0144	.0114	.0030	.0050	.0001	0.6	-	.44
31,260	May 15	16	Very Slight.	Slight.	.29	Faintly Vegetable.	Distinctly Vegetable.	3.15	1.30	1.85	.0026	.0162	.0142	.0020	.0060	.0002	0.8	-	.45
31,773	June 19	20	Slight.	Cons.	.24	Faintly Vegetable.	Distinctly Vegetable.	3.00	1.10	1.90	.0034	.0214	.0144	.0070	.0020	.0002	1.0	-	.43
32,052	July 17	18	Slight.	Slight.	.11	Faintly Unpleasant.	Distinctly Unpleasant. Musty.	3.15	0.90	2.25	.0040	.0222	.0154	.0068	.0020	.0002	1.8	-	.33
32,606	Aug. 22	23	Slight.	Slight.	.10	Faintly Vegetable.	Distinctly Vegetable.	3.50	1.00	2.50	.0028	.0192	.0136	.0056	.0050	.0003	1.3	-	.34
32,969	Sept. 18	19	Slight.	Slight.	.23	None.	None	3.95	1.05	2.90	.0088	.0200	.0166	.0034	.0020	.0003	1.6	-	.32
33,422	Oct. 23	25	None.	Cons.	.28	None.	Decidedly Unpleasant.	4.50	1.60	2.90	.0128	.0224	.0166	.0058	.0030	.0002	1.0	-	.50
33,720	Nov. 20	21	Slight.	Slight.	.45	Distinctly Vegetable.	Distinctly Vegetable.	4.20	1.60	2.60	.0088	.0240	.0184	.0056	.0090	.0001	1.3	-	.71
34,136	Dec. 18	19	Very Slight.	Very Slight.	.40	None.	Faintly Vegetable.	4.00	1.50	2.50	.0068	.0188	.0164	.0024	.0120	.0001	1.3	-	.63



COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH, LOWELL.  
WATER ANALYSIS.—Cook and Hydraulic Wells and Cook Wells.

(PARTS IN 100,000.)

NO.	DATE OF		APPEARANCE.		ODOR.		RESIDUE ON EVAPORATION.			AMMONIA.			Chlorine.	NITROGEN AS		Hardness.	Iron.	Oxygen Consumed.		
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total.	Loss on ignition.	Fixed.	Free.	Albuminoid.								
												Total.		In solution.	In suspension.					
29,958	Jan. 16	1900. 17	Very Slight.	Very Slight.	.06	None.	None.	8.60	- - -	- - -	.0026	.0036	- - -	- - -	.52	.0270	.0000	3.3	.0250	.12*
30,245	Feb. 20	21	Very Slight.	Very Slight.	.05	None.	None.	9.00	- - -	- - -	.0040	.0044	- - -	- - -	.47	.0270	.0001	3.5	.0300	.11†
30,641	Mar. 20	21	Very Slight.	Very Slight.	.06	None.	None.	8.70	- - -	- - -	.0036	.0038	- - -	- - -	.45	.0310	.0001	3.5	.0360	.11†
31,142	Apr. 30	May 2	Very Slight.	Very Slight.	.10	None.	None.	9.30	- - -	- - -	.0038	.0036	- - -	- - -	.48	.0270	.0001	3.8	.0420	.13†
31,262	May 15	16	Slight.	Slight Iron.	.12	None.	None.	9.60	- - -	- - -	.0036	.0042	- - -	- - -	.44	.0270	.0001	4.0	.0760	.12†
31,775	June 19	20	None.	None.	.05	None.	None.	8.40	- - -	- - -	.0010	.0078	- - -	- - -	.53	.0520	.0001	3.8	.0060	.10*
32,054	July 17	18	Very Slight.	Very Slight.	.10	None.	None.	8.70	- - -	- - -	.0046	.0040	- - -	- - -	.44	.0210	.0000	4.0	.0310	.14†
32,608	Aug. 22	23	None.	Very Slight.	.02	None.	None.	8.60	- - -	- - -	.0014	.0042	- - -	- - -	.51	.0340	.0000	3.6	.0050	.11*
33,031	Sept. 20	22	None.	None.	.02	None.	None.	9.00	- - -	- - -	.0008	.0036	- - -	- - -	.50	.0350	.0000	3.5	.0070	.08*
33,424	Oct. 23	25	None.	Very Slight.	.04	None.	None.	8.20	- - -	- - -	.0016	.0056	- - -	- - -	.50	.0340	.0000	3.4	.0080	.07†
33,722	Nov. 20	20	Very Slight.	Very Slight.	.03	None.	Faintly Earthy.	9.00	- - -	- - -	.0012	.0064	- - -	- - -	.50	.0450	.0000	3.3	.0200	.09*
34,138	Dec. 18	19	None.	Very Slight.	.00	None.	None.	9.20	- - -	- - -	.0014	.0058	- - -	- - -	.50	.0480	.0000	3.9	.0100	.12*

\*Cook wells.

†Cook and hydraulic wells.



COMMONWEALTH OF MASSACHUSETTS. — STATE BOARD OF HEALTH, LOWELL.  
WATER ANALYSIS. — Boulevard Wells.  
(PARTS IN 100,000.)

NO.	DATE OF		APPEARANCE.			ODOR.		RESIDUE ON EVAPORATION.			AMMONIA.				NITROGEN AS		Iron.	Oxygen Consumed.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total.	Loss on ignition.	Fixed.	Free.	Total.	In solution.	In suspension.	Nitrates.	Nitrites.		
29,957	Jan., 1900, 16 17		Very Slight.	Slight Iron.	.05	None.	None.	4.60	---	---	.0030	.0026	---	---	.30	.0270 .0000	.0630	.09
30,244	Feb. 21 21		Very Slight.	Very Slight.	.10	None.	None.	4.50	---	---	.0088	.0032	---	---	.29	.0220 .0000	.0580	.10
30,640	Mar. 20 21		Very Slight.	Very Slight.	.10	None.	None.	4.10	---	---	.0100	.0036	---	---	.24	.0100 .0000	.0680	.11
31,141	Apr. May 30 2		Very Slight.	Very Slight.	.18	None.	None.	4.20	---	---	.0102	.0032	---	---	.19	.0260 .0001	.0520	.14
31,261	May 15 16		Slight.	Slight Iron.	.13	None.	None.	4.00	---	---	.0104	.0024	---	---	.20	.0200 .0001	.0720	.09
31,774	June 19 20		Very Slight.	Slight.	.10	None.	None.	4.00	---	---	.0090	.0066	---	---	.22	.0130 .0002	.0440	.10
32,053	July 17 18		Very Slight.	V. Slight Iron.	.10	None.	None.	4.00	---	---	.0080	.0042	---	---	.25	.0090 .0001	.0330	.11
32,607	Aug. 22 23		None.	Very Slight.	.02	None.	None.	4.30	---	---	.0080	.0048	---	---	.28	.0060 .0001	.0630	.10
32,970	Sept. 18 19		Slight.	Slight Iron.	.14	None.	None.	4.70	---	---	.0070	.0038	---	---	.29	.0050 .0000	.0660	.09
33,423	Oct. 23 25		Very Slight.	Cons. Iron.	.12	None.	None.	4.30	---	---	.0074	.0048	---	---	.30	.0050 .0003	.0600	.06
33,721	Nov. 20 20		Very Slight.	Slight Iron.	.11	None.	None.	4.60	---	---	.0034	.0050	---	---	.29	.0110 .0003	.0870	.07
34,137	Dec. 18 19		None.	Slight Iron.	.07	None.	None.	4.20	---	---	.0096	.0080	---	---	.27	.0140 .0001	.0430	.09

COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH, LOWELL.  
WATER ANALYSIS.—Pumping Station No. 1.  
(PARTS IN 100,000.)

NO.	DATE OF		APPEARANCE.			ODOR.		RESIDUE ON EVAPORATION.			AMMONIA.				Chlorine.	NITROGEN AS		Hardness.	Iron.	Oxygen Consumed.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Loss on ignition.	Fixed.	Free.	Albuminoid.								
												Total	In solution.	In suspension.						
29,959	Jan., 1900. 16 17		Very Slight.	Slight.	.06	None.	None.	4.50	- - -	- - -	.0060	.0032	- - -	- - -	.31	.0450	.0001	1.7	.0240	.08
30,246	Feb. 20 21		Very Slight.	None.	.07	None.	None.	4.40	- - -	- - -	.0066	.0034	- - -	- - -	.31	.0240	.0000	2.0	.0350	.09
30,640	Mar. 20 21		Very Slight.	Very Slight.	.06	None.	None.	4.20	- - -	- - -	.0068	.0036	- - -	- - -	.29	.0210	.0001	2.0	.0380	.10
31,143	Apr. May. 30 2		Very Slight.	Very Slight.	.08	None.	None.	4.20	- - -	- - -	.0074	.0036	- - -	- - -	.20	.0310	.0001	1.6	.0400	.11
31,263	May. 15 16		Very Slight.	Very Slight.	.10	None.	None.	4.30	- - -	- - -	.0082	.0030	- - -	- - -	.24	.0320	.0000	1.8	.0400	.10
31,776	June. 19 20		Slight.	Slight.	.05	None.	None.	4.00	- - -	- - -	.0060	.0058	- - -	- - -	.21	.0320	.0002	1.7	.0320	.10
32,055	July. 17 18		Very Slight.	Very Slight.	.07	None.	None.	4.20	- - -	- - -	.0052	.0034	- - -	- - -	.26	.0180	.0002	1.4	.0160	.09
32,609	Aug. 22 23		Slight.	Slight Iron.	.10	None.	None.	4.00	- - -	- - -	.0070	.0054	- - -	- - -	.29	.0100	.0003	1.7	.0320	.10
33,030	Sept. 20 22		Slight.	Slight Iron.	.11	None.	None.	4.80	- - -	- - -	.0054	.0046	- - -	- - -	.29	.0120	.0003	2.1	1000	.10
33,425	Oct. 23 25		Very Slight.	Slight.	.12	None.	None.	4.10	- - -	- - -	.0064	.0060	- - -	- - -	.30	.0120	.0003	1.6	.0150	.07
33,723	Nov. 20 20		Slight.	Very Slight.	.06	None.	None.	4.70	- - -	- - -	.0056	.0046	- - -	- - -	.29	.0170	.0002	2.0	.0360	.07
34,139	Dec. 18 19		None.	Slight.	.08	None.	Faintly Vegetable.	5.00	- - -	- - -	.0056	.0040	- - -	- - -	.29	.0490	.0001	2.3	.0400	.10

# CITY OF LOWELL.



## 1901 REPORT OF THE COMMITTEE ON APPROPRIATIONS.

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CITY HALL,  
Lowell, Mass., March 7, 1901.

TO THE CITY COUNCIL:

Your Joint Standing Committee on Appropriations have carefully considered the estimates submitted by the various departments for the current year, referred to us, and respectfully submit our report in accordance with the ordinance.

Your Committee has been confronted with the condition that for a number of years the valuation of property in Lowell has increased at a rate of less than one per cent. per annum, while the expenses of departments have increased at a much higher rate. This condition has been met in the past by increasing the tax rate and by resort to loans for current expenses. We believe the tax rate is higher now than is for the best interests of the City and that the policy of borrowing for current expenses is unbusinesslike and ruinous; besides which, loans for this

purpose have brought the City so near the debt limit as to be a menace to the City's credit.

Comparisons with other cities do not show that Lowell's expenditures are extravagant but rather reflect credit upon our officials and methods, but the large number of non-resident owners of our mill and other stocks makes Lowell a relatively poor city, and we must regulate our expenses accordingly. We find much to commend in the management of many departments and regret that the necessity for rigid economy makes it imperative to cut down their estimates to a very low point.

We have felt that it was impossible for a single committee, in the limited time allowed us, to examine into the needs of the different departments in the matter of increases and important repairs, and have accordingly recommended appropriations which we believe will cover only the ordinary current expenses for the maintenance of the different departments, leaving a sufficient sum in the general treasury to cover extraordinary expenses after they have been investigated by the respective committees in charge.

We submit herewith an order providing that all appropriations, loans and transfers be referred to this Committee before final passage.

The amount we recommend to be raised by taxation is \$1,220,000.00, which is \$16,439.89 less than in 1900, and with this as a basis, it will leave a sum of \$50,000.00 unappropriated and available during the year without resort to loans.

This decrease in the amount necessary to raise is due to the decrease in our fixed charges, which more than offsets the decrease in our estimated revenue, and to reduced departmental appropriations.



We believe this plan is advisable, as it is impossible to anticipate all extraordinary expenditures and repairs which may be necessary during the year, and we believe there should be a certain sum in the treasury available at all times; and also for the reason that where a sum is appropriated in excess of absolute needs, the excess has often been applied by heads of departments to objects not sanctioned by the City Council, and even to objects expressly disapproved of by the Council.

The amounts recommended to be appropriated for salaries and labor can and should be divided into substantially twelve equal parts, and no more than one twelfth should be spent in any one month. If money is needed for extraordinary work, the head of the department should ask a special appropriation therefor.

We recommend that any officials who exceed their appropriations without authority be removed from office.

There are many small expenses which should be curtailed, such as newspapers, carriage hire, printing, telephones, etc., and heads of departments who expend money unnecessarily on such items cannot honestly plead that their appropriations are too small for necessary expenses.

We have carefully itemized appropriations and recommend to the Joint Committee on Accounts that it refuse to approve any bills not properly charged to the right appropriation.

Your Committee is of opinion that the system of Outdoor Relief, as now administered, is unscientific and detrimental to the interests of honest labor, and we have recommended cutting this appropriation fifty per cent., which we believe leaves sufficient to take care of all deserving cases. This department should pay more atten-

tion to securing suitable work for the indigent, and should never assist by charity the able-bodied poor.

We have also recommended a decided cut in the appropriation for the Street Department, giving enough for the ordinary expenses of maintenance, for cleaning and repairs and no more. In the past, new work has been done at the discretion of the Superintendent and the orders of the City Council have been disregarded. We believe all new work should be passed upon by the City Council, and recommend leaving all such work for future action.

The revenue of the City shows a strong tendency to decrease, owing to the fact, we believe, that departments are not now credited, as they were under the old charter, with any moneys which are received on their account, and some departments, notably the City Cemeteries and Street Watering, which should be more than self-supporting, have become an actual expense to the City.

We herewith submit an order giving this Committee the powers of an investigating committee to examine the conduct of the City Cemeteries, and recommend its passage.

On the advice of the City Solicitor, we have recommended an appropriation for the Water Department, to be paid from the revenues of that department.

The Committee is late in submitting its report this year on account of Inauguration Day being later than usual, and owing to the fact that all the departments were very slow in submitting their estimates to the Mayor, as required by ordinance, before they could be referred to this Committee.

We have held sixteen meetings and have heard every head of department.



## Estimated Revenue, 1901.

Amount allowed to be raised by taxation for ordinary expenses .....	\$855,834 65
Valuation real and personal property, 1900 .....	\$71,529,515 00

ESTIMATED REVENUE BASED ON REVENUE  
FOR 1900.

From balance in Gen'l Treas- ury Fund, January 1 .....	\$ 8,000 00	
City Cemeteries .....	8,000 00	
City Clerk .....	1,700 00	
City Scales .....	183 16	
City Sealer .....	351 75	
City Treasurer .....	2,200 00	
Commons .....	715 40	
Corporation Tax .....	86,278 69	
Fire Department .....	300 00	
Health Department .....	6,500 00	
Huntington Hall .....	1,500 00	
Incidentals .....	3,705 00	
Inspector of Milk .....	136 00	
Liquor Licenses .....	172,450 00	
Military Aid	} .....	20,500 00
Soldiers' Relief		
State Aid		
Pauper Dept. (Almshouse) ...	1,200 00	
Pauper Dept. (Outdoor Relief)	6,748 80	
Police Department .....	14,000 00	
Public Buildings Dept. ....	2,400 00	
School Department .....	3,724 00	
Sewer Construction .....	15,000 00	
Street Department .....	12,000 00	
Watering Streets .....	12,000 00	
Interest .....	24,500 00	
National Bank Tax .....	5,400 00	
Excise Tax .....	6,000 00	
Armory Rent .....	1,200 00	
Street Railway Tax .....	8,800 00	
		\$425,492 80
Total Revenue .....		\$1,281,327 45

### Limit of Indebtedness.

Limit of indebtedness for 1901 is		
2½ % on average valuation for		
three years past, which is		
\$70,974,473.00.....		\$1,774,361 82
Total City Debt Jan. 1, 1901.....	\$3,825,480 29	
Deduct for Water Loans.....	\$1,274,700 00	
Deduct amount exempted by		
Legislature .....	800,000 00	
Deduct Sinking Funds which		
apply to Limit.....	159,473 41	
	<u>                    </u>	\$2,234,173 41
City Debt as it relates to Limit of Indebtedness		
		<u>\$1,591,306 88</u>
Distance from Limit.....		
		<u>\$183,054 94</u>

### Department Expenses for 1900 — Estimates for 1901 — Amount Recommended by Committee on Appropriations.

	Department Expense, 1900.	Department Estimate, 1901.	Committee Recommends, 1901.
Assessors' Department.....	\$ 14,276 33	\$ 14,500 00	\$ 14,500 00
Auditor's Department.....	3,540 80	4,000 00	4,000 00
Care of City Hall Department..	6,873 36	7,825 75	7,179 75
City Cemeteries Department...	10,119 46	11,818 46	7,000 00
City Clerk's Department.....	5,075 52	6,121 06	5,376 00
Heating City Hall and Memorial Building .....	7,393 94	6,100 00	6,100 00
City Sealer's Department.....	410 00	430 00	430 00
City Messenger's Department..	1,484 23	1,600 00	1,500 00
City Treasurer's Department...	10,729 95	10,966 09	10,964 84
City Weigher's Department....	800 00	815 00	815 00
Commons Department.....	16,148 74	12,372 83	9,100 00
Clerk of Common Council.....	300 00	300 00	300 00
Clerk of Committees Department		1,362 50	1,360 00
Elections Department.....	6,692 56	7,386 00	6,300 00
Engineering Department.....	16,352 39	8,000 00	7,500 00
Fire Department.....	120,834 84	123,712 00	120,132 00
Amounts carried forward....	<u>\$221,032 12</u>	<u>\$217,309 69</u>	<u>\$202,557 59</u>

	Department Expense, 1900,	Department Estimate, 1901.	Committee Recommends, 1901.
Amounts brought forward...	\$221,032 12	\$217,309 69	\$202,557 59
Fish Warden.....	40 00	40 00	40 00
Health Department.....	46,266 11	44,120 05	41,897 05
Incidentals Department.....	3,767 93	4,000 00	2,000 00
Inspection of Animals and Pro- visions.....	500 00	500 00	500 00
Inspection of Milk and Vinegar.	2,329 97	2,386 12	2,386 00
Inspection of Wires.....	2,694 12	4,060 00	2,324 00
Insurance.....			2,459 00
Law Department.....	5,955 69	6,632 53	5,624 00
Library Department.....	15,725 00	15,500 00	15,000 00
Lighting Department.....	85,917 59	95,050 00	86,700 00
Liquor Licenses (25 % paid to State) .....	41,937 75	43,112 50	43,112 50
Mayor's Department.....	4,301 26	4,500 00	4,900 00
Pauper Department( Almshouse)	57,058 64	50,434 00	40,000 00
Pauper Department (Outdoor Relief).....	55,148 10	54,998 50	47,000 00
Police Department.....	133,526 09	143,210 66	134,600 00
Pound Keeper.....	5 00	5 00	5 00
Public Buildings Department...	19,151 63	18,286 45	17,700 00
Registrars of Voters.....	3,719 84	3,800 00	3,800 00
Rifle Range.....	688 78	756 25	750 00
School Department.....	275,320 31	286,000 00	275,000 00
Schoolhouse Department.....	47,806 10	49,302 00	42,700 00
Sewer Maintenance.....	14,566 00	19,703 50	13,636 00
Sewer Construction.....	99,162 52	40,675 00	2,675 00
State Aid Department.....	33,183 85	34,500 00	32,500 00
Street Department.....	155,172 19	232,993 00	100,274 00
Supply Department.....	5,270 23	6,184 00	6,117 00
Watering Streets Department..	10,784 15	17,483 75	11,800 00
Huntington Hall Maintenance..	1,839 54	4,505 66	4,000 00
Corporation Tax Fund.....	7,645 30	6,125 45	
Water Works Department.....		13,644 00	

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	\$1,350,510 81	\$1,422,819 11	\$1,142,057 14
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FIXED CHARGES.	1900.	1901.	DECREASE.
City Debt.....	\$309,740 00	\$287,990 00	\$21,750 00
Interest .....	130,000 00	125,000 00	5,000 00
Sinking Funds.....	43,300 00	43,300 00	
	<hr/> \$483,040 00	<hr/> \$456,290 00	<hr/> \$26,750 00

## Summary of Anticipated Receipts and Appropriations, 1901.

Amount which Assessors are directed to raise		
by Taxation.....		\$1,220,000 00
Revenue Estimated.....	.	425,492 80
		<hr/>
		\$1,645,492 80
Fixed Charges.....	\$ 456,290 00	
Appropriated for Departments.....	1,142,057 14	
	<hr/>	\$1,598,347 14

Your Committee introduce the accompanying Joint Orders, and recommend the adoption of the same.

Respectfully submitted,

GARDNER W. PEARSON, *Chairman*,  
 JAMES H. CARMICHAEL,  
 JAMES F. MISKELLA.  
 HERBERT R. BAKER,  
 JAMES B. CASEY,  
 JAMES G. HILL,

*Committee on Appropriations.*

## CITY OF LOWELL.

In Board of Aldermen, March 12, 1901.

Order to Appropriate Money to meet Fixed Charges and Current Expenses.

Ordered, if the Common Council concur, That the following sums, amounting to One Million, Five Hundred Ninety-eight Thousand, Three Hundred Forty-seven Dollars and Fourteen Cents (\$1,598,347.14), be and they are hereby appropriated to meet the Fixed Charges and Current Expenses of the City of Lowell for the year beginning January 1, 1901, and ending December 31, 1901:

## Assessors' Department.

Salaries.....	\$12,700 00	
Sundries.....	1,800 00	
	<hr/>	\$14,500 00

## Auditor's Department.

Salaries.....	3,300 00	
Sundries.....	700 00	
	<hr/>	4,000 00

## Care of City Hall.

Labor.....	4,966 00	
Police Officer.....	1,013 75	
Sundries.....	1,200 00	
	<hr/>	7,179 75

## City Cemeteries.

Salary of Superintendent.....	900 00	
Labor.....	4,600 00	
Sundries.....	1,500 00	
	<hr/>	7,000 00

## City Clerk.

Salaries.....	4,028 00	
Sundries.....	1,348 00	
	<hr/>	5,376 00

## City Treasurer.

Salaries.....	6,964 84	
Sundries.....	4,000 00	
	<hr/>	10,964 84

Amount carried forward.....		<hr/>	\$49,020 59
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Amount brought forward.....		\$49,020 59
Heating City Hall and Memorial Building.		
Labor.....	\$3,000 00	
Fuel.....	2,500 00	
Sundries.....	600 00	
		<hr/> 6,100 00
City Sealer.		
Salary.....	350 00	
Sundries.....	80 00	
		<hr/> 430 00
City Messenger.		
Salary.....	1,200 00	
Sundries.....	300 00	
		<hr/> 1,500 00
City Weigher.		
Salary.....	800 00	
Sundries.....	15 00	
		<hr/> 815 00
Commons Department.		
Salary Superintendent.....	1,200 00	
Assistant Superintendent (30 weeks)....	405 00	
Foreman, Fort Hill Park (30 weeks)....	420 00	
Sundries (including \$150 for new buggy)	1,750 00	
Labor.....	4,975 00	
New walks on North Common.....	350 00	
		<hr/> 9,100 00
Clerk of Common Council.....		300 00
Clerk of Committees.		
Salary, from December 18, 1900.....	934 62	
Typewriter, cabinet and typewriter sup- plies.....	150 00	
Sundries.....	275 38	
		<hr/> 1,360 00
Elections.....		6,300 00
(Principal Election Officers \$8 per day)		
(Deputies \$1.)		
Registrars.		
Salaries and clerk hire.....	2,800 00	
Printing and sundries.....	1,000 00	
		<hr/> 3,800 00
Engineering Department.....		7,500 00
Amount carried forward.....		<hr/> \$86,225 59



Amount brought forward.....		\$86,225 59
Fire Department.		
Salaries.....	\$100,650 00	
Sundries.....	19,482 00	
	<hr/>	120,132 00
Fish Warden.....		\$40 00
Health Department (Office).		
Salaries and labor, including salary of		
Bacteriologist.....	8,799 50	
Sundries.....	1,800 00	
	<hr/>	10,599 50
Health Department (Yard).		
Labor.....	26,797 55	
Sundries.....	4,500 00	
	<hr/>	31,297 55
Huntington Hall.....		4,000 00
Incidentals.....		2,000 00
Inspector of Animals and Provisions.....		500 00
Inspector of Milk, Vinegar, etc.		
Salaries.....	2,126 00	
Sundries.....	260 00	
	<hr/>	2,386 00
Inspector of Wires.		
Salaries.....	2,124 00	
Printing, stationery, office expenses and		
miscellaneous expenses.....	100 00	
Carriage hire.....	100 00	
	<hr/>	2,324 00
Insurance.....		2,459 00
Law Department.		
Salaries.....	4,824 00	
Preparing cases, etc.....	300 00	
Books.....	200 00	
Telephone.....	50 00	
Sundries.....	100 00	
Carriage hire.....	150 00	
	<hr/>	5,624 00
Library.....		15,000 00
Amount carried forward.....		<hr/> \$282,587 64

Amount brought forward.....		\$282,587 64
Lighting Department.		
Salaries and labor.....	\$ 1,000 00	
Electric Lights, streets.....	59,900 00	
Electric Lights, public buildings.....	750 00	
Gas, streets.....	500 00	
Gas, public buildings.....	450 00	
Gasoline Lights, streets (balance present contract) .....	3,000 00	
Welsbach Lights, streets.....	20,700 00	
Hay, grain, paint, posts, etc.....	200 00	
Map .....	200 00	
	<hr/>	86,700 00
Liquor Licenses (25 per cent. to State).....		43,112 50
Mayor's Department.....	4,500 00	
Stenography and typewriting.....	400 00	
	<hr/>	4,900 00
Pauper Department (Almshouse).		
Salaries.....	2,700 00	
Labor.....	9,400 00	
Telephones (City Farm and Oblates Residence).....	150 00	
Sundries.....	27,750 00	
	<hr/>	40,000 00
Pauper Department (Outdoor Relief).		
Salaries and General Expenses.....	40,000 00	
Outdoor Relief.....	7,000 00	
	<hr/>	47,000 00
Police Department.		
Salaries and Labor.....	129,600 00	
Sundries .....	5,000 00	
	<hr/>	134,600 00
Pound Keeper .....		5 00
Public Buildings.		
Salaries.....	2,263 00	
Labor.....	9,036 00	
Sundries.....	6,401 00	
	<hr/>	17,700 00
Rifle Range.....		750 00
School Department.....		275,000 00
	<hr/>	
Amount carried forward.....		\$932,355 14

Amount brought forward.....		\$932,355 14
School Houses.		
Labor including $\frac{1}{2}$ salary of Clerk.....	8,000 00	
Janitors .....	29,358 50	
Evening School Janitors.....	1,200 00	
Kalsomining.....	600 00	
Sundries and Repairs.....	3,541 50	
		42,700 00
Sewer Maintenance.		
Salary of Assistant Superintendent.....	1,400 00	
$\frac{1}{2}$ Salary of Clerk.....	400 00	
Salary of Inspector.....	936 00	
Cleaning Sewers.....	1,200 00	
Labor.....	7,200 00	
Sundries .....	2,500 00	
		13,636 00
Sewer Construction.		
West Street Outlet.....	1,000 00	
Alder Street Outlet.....	1,000 00	
Weed Street Outlet.....	675 00	
		2,675 00
State Aid Department.		
Military Aid.....	7,500 00	
Soldiers' Relief.....	8,000 00	
State Aid.....	15,000 00	
Salaries.....	1,800 00	
Sundries .....	200 00	
		32,500 00
Street Department.		
Salary of Superintendent.....	2,000 00	
Salary of Assistant Superintendent.....	1,400 00	
$\frac{1}{2}$ Salary of Clerk.....	400 00	
Repairing and cleaning unpaved streets.	30,000 00	
Care and repair of paved streets and labor in building crossings.....	20,000 00	
Boulevard labor (care).....	1,000 00	
Watchmen, Pawtucket Bridge.....	624 00	
Yard men, including blacksmiths, helpers, carpenters, firemen and weigher- clerk .....	9,000 00	
Fuel .....	1,500 00	
Hay and Grain.....	8,000 00	
Amounts carried forward.....		\$1,023,866 14

Amounts brought forward.....	\$	\$1,023,866 14
Carriage and wagon repairs, whips and general sundries.....	1,000 00	
Lumber.....	800 00	
Hardware and New Tools.....	3,000 00	
Cement and Gravel.....	550 00	
Sundries.....	4,000 00	
Teaming.....	1,000 00	
Engineering.....	4,000 00	
Edgestones and new Sidewalks.....	8,000 00	
Repairs of Sidewalks.....	4,000 00	
	<hr/>	\$100,274 00
Supply Department.		
Salaries and Labor.....	5,042 00	
Sundries.....	800 00	
Carriage.....	100 00	
Horse and Harness.....	175 00	
	<hr/>	6,117 00
Watering Streets.		
Labor.....	6,500 00	
Sundries.....	4,500 00	
New Watering Cart and two New Horses	800 00	
	<hr/>	11,800 00
		<hr/>
		\$1,142,057 14

## FIXED CHARGES.

City Debt.....	\$287,990 00
Interest Account.....	125,000 00
Sinking Funds.....	43,300 00
	<hr/>
Total.....	\$1,598,347 14

And that the sum of two hundred and five thousand dollars (\$205,000.00) be appropriated for the expenses of the Water Department, to be paid from its revenues.

(Adopted.)

## CITY OF LOWELL.

In Board of Aldermen, March 12, 1901.

Order to Assess Taxes for the Year Nineteen Hundred and One.

Ordered, if the Common Council concur,

First.—That the Board of Assessors of the City of Lowell be, and they are hereby instructed to raise the sum of One Million, Two Hundred and Twenty Thousand Dollars (\$1,220,000.00) by assessment upon Polls and Estates of the Inhabitants of the City of Lowell, and Estates of Non-Resident Proprietors, according to law, to defray the current expenses of the City for the financial year beginning January 1, 1901, and ending December 31, 1901.

Second.—That interest at the rate of six per centum per annum shall be charged on all taxes under this order which remain unpaid on and after the twentieth day of October, 1901, until the same shall be paid, and such interest shall be added to and be considered a part of said Taxes.

Third.—That a copy of this Order shall be furnished to the Board of Assessors by the City Clerk within ten days after the approval of the same.

(Adopted.)

## CITY OF LOWELL.

In Board of Aldermen, March 12, 1901.

Order Referring Papers Involving the Appropriation, Transfer, Borrowing or Payment of Money to the Joint Committee on Appropriations.

Ordered, if the Common Council concur, That all orders and resolutions involving the appropriation, trans-



fer, borrowing or payment of money be referred to the Joint Committee on Appropriations before final adoption or passage by either branch of the City Council.

(Not Adopted.)

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## CITY OF LOWELL.

In Board of Aldermen. March 12. 1901.

Order Authorizing and Instructing the Joint Committee on Appropriations to investigate and report upon the management of the City Cemeteries.

Ordered, if the Common Council concur, That the Joint Committee on Appropriations be authorized and instructed to investigate and report upon the management of the City Cemeteries, and that they be hereby empowered to summon before them the Cemetery Trustees and all or any employees of that Department and to examine all books and papers belonging to said Department.

(Adopted.)

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## CITY OF LOWELL.

In Board of Aldermen, March 12, 1901.

Order Relating to Report of Committee on Appropriations.

Ordered, if the Common Council concur, That a sufficient number of copies of the report of the Committee on Appropriations be printed for, and that they be included in, the published volumes of the Lowell City Documents for the year 1901, the expense of the printing to be charged to the Appropriation for Incidentals.

(Adopted.)





ANNUAL REPORT  
OF THE  
OVERSEERS OF THE POOR

FOR THE  
CITY OF LOWELL,  
WITH ACCOMPANYING PAPERS,  
FOR MUNICIPAL YEAR 1900.



LOWELL, MASS.:  
COURIER-CITIZEN PRINT.

1901.



BOARD OF OVERSEERS OF POOR,  
LOWELL, MASS., 1901.

Ward 1—	SAMUEL HOLGATE .....	46 Bowditch Street
	Term expires Dec. 31, 1901.	
Ward 2—	FRANCIS McMAHON, Chairman.....	97 Adams Street
	Term expires Dec. 31, 1901.	
Ward 3—	DR. GEORGE F. THOMAS.....	417 Middlesex Street
	Term expires Dec. 31, 1901.	
Ward 4—	JOHN J. GILBRIDE .....	9 Prospect Street
	Term expires Dec. 31, 1901.	
Ward 5—	MARTIN F. CONLEY .....	24 Andover Street
	Term expires Dec. 31, 1902.	
Ward 6—	EVARISTE BERTRAND.....	115 West Street
	Term expires Dec. 31, 1902.	
Ward 7—	CLARENCE G. COBURN.....	9 Mammoth Road
	Term expires Dec. 31, 1901.	
Ward 8—	HENRY J. WILLIAMS .....	15 Thorndike Street
	Term expires Dec. 31, 1902.	
Ward 9—	HUGH C. McOSKER.....	123 Central Street
	Term expires Dec. 31, 1902.	

Secretary and Superintendent of Outdoor Relief.

MARTIN J. COURTNEY .....	26 Ames Street
Office:	City Hall. 9 A. M. to 4 P. M.

CLERKS:

JAMES F. WALSH	MISS NELLIE A. KEYES
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Superintendent of Indoor Poor and Master of Workhouse.

ROBERT V. SAUNDERS.....	Office and Residence: City Farm
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City Dispensary, City Hall.

EDWIN F. MASON, Clerk .....	838 Bridge Street
Hours:	9 A. M. to 5 P. M.

Ambulance Service.

DR. F. G. BURNHAM, Ambulance Physician .....	150 Andover Street
GEORGE B. McKENNA, Driver .....	14 Cedar Street
JAMES McGLYNN, Driver.....	35 Reservoir Street
JAMES A. RILEY, Driver.....	66 Manchester Street
Telephone	437-4.



*To His Honor the Mayor and the Honorables the  
Members of the City Council of the City of  
Lowell, Mass.*

GENTLEMEN:—In accordance with the provisions of the charter of the City of Lowell I hereby present the following as the report of the Overseers of the Poor department for the fiscal year ending December 31, 1900.

HENRY J. WILLIAMS, *Chairman,*

*For the Overseers of the Poor.*





REPORT OF THE SECRETARY  
OF THE  
OVERSEERS OF THE POOR.

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LOWELL, Dec. 31, 1900.

*Mr. Chairman and Gentlemen of the Overseers of the Poor :*

GENTLEMEN :—In accordance with the provisions of the rules of the board, I herewith present my annual report as secretary and superintendent of outdoor poor for the municipal year 1900. In compiling the statistical tables I have departed from the custom of heretofore, in some particulars. In the expenditures for insane dependents I have included the cost of supporting the feeble minded at the Massachusetts School for the Feeble Minded. In the tables showing the expenditures for support of children outside of the almshouse, I have included the cash allowances which are allowed for the support of children. In making comparisons of the amounts spent

this year in those branches with similar expenditures in other years, it will be necessary to keep those facts in mind. I have endeavored to arrange the tables of expenditures in such a manner as to be readily understood by those who care to read them. I specially recommend the statistical portion of this report to your consideration and bespeak for it your closest scrutiny. Therein is shown the expenditure for each particular, and from it you can gain a more comprehensive knowledge of the work of the department than from any other source.

That such a knowledge would become universal is the earnest wish of the writer. There is no department in city hall of which so little is known as the pauper department. The accepted belief of almost the entire population, who give the matter any thought at all, is that all the department does is give fuel and provisions to those who need them. They take but little concern in anything outside of the total amount expended, and content themselves with grumbling at that amount each year. Secure in their belief that they know what the pauper department is, they don't stop to examine, but jump to erroneous conclusions. For the benefit of those, let me tell them that the entire amount of provisions and fuel given away last year did not consume one-fourth of the outdoor relief appropriation. The expenditures in other channels are many and are as productive of as much real good. If the general public would take interest enough to examine into those expenditures we would hear fewer words of criticism.

The right to criticise is a prerogative common to all people. It affords a certain satisfaction to the individual that even religion or wealth fails to bestow. When intelligently applied it is a cure for many evils and is often a safeguard for public welfare. Against this kind of criticism not one word can be said. The public official is a fitting target for such, and he should have it heaped upon him when his official acts merit it. But it is against the criticism that has no foundation in fact and is clothed in ignorance that we object—against that criticism of city officials and city departments, so fashionable nowadays, made by men who know nothing of either. Such criticism is productive of no good and is a rank injustice in all cases. When men of standing and position, secure in their surroundings from any attempt at refutation, resort to this kind of criticism they not only lower themselves in the minds of fair-minded men but they accomplish no beneficial results. They are simply disturbers and meddlesome trouble-brewers, whose ignorance of fact is no check to their love of public notoriety.

It is from such that we hear the many “slings and arrows” that are hurled against the pauper department—from persons who know absolutely nothing of the scope of the department’s work and whose words of censure serve only to establish their own ignorance. Their fatuous knowledge precludes the idea of making an effort to find out, by examination, the methods they criticise. They rush blindly in, bold in their ignorance, unsparing in their

attacks and voluble in their advice. I have no patience with this sort of people. There is every opportunity in the world for them to find out all about the workings of the pauper department ; our office, our books and our methods are open to public inspection at any and all times. Honest, intelligent criticism is never offensive ; but when men, who have never taken the trouble to find out anything about the department, stand up in public places and assert that it is extravagant and costs too much money you can rest assured that they are sincere in one thing only, namely, a little cheap notoriety. Such statements are made by men who should know better.

I am entering upon my seventh consecutive year in this department. During these years I have been very active in the work of the department and am well acquainted with the pauper departments throughout the State. I know them all and I know them well. I have no hesitation in making this statement, that the pauper department of Lowell will compare most favorably with that of any other city in the State. We assist more people at a less cost proportionally than any other city in the Commonwealth. We handle a larger volume of business with less administrative cost. Our records are more complete than in most places and our system will compare favorably with the best. In fact, I challenge anybody to show any extravagance. If the amount of money spent is too much, the only reason that is so is because it costs too much to feed the hungry, to clothe the naked, to warm the chilled, to



nurse the sick, to provide for and look after the children, to care for our insane, to assist the unfortunate and to bury the dead. But such things have to be done and it takes money to do them.

The general business of the department has been very large during the year. We are still clinging to the well hewn roads that have been gone over by successive boards of overseers of the poor since the "sum of \$400 for the support of town paupers, the year ensuing," was voted by the inhabitants of the town of Lowell, in their first town meeting in 1826. The items of expenses then were practically the same as now and the work accomplished identical. The increase in the amount appropriated yearly was even as great in the days of town government as it is at present. In April, 1836, in the last town meeting ever held, the sum of \$3,000 for the support of paupers was appropriated. There has been a steady increase ever since and the past year was no exception. The only noticeable decrease was in the distribution of outdoor aid. This shows a marked decrease, being over \$2,000 less than in 1899, and nearly \$3,000 less than in 1897 and 1898. The other items, however, show an increase, thus keeping the year 1900 in the procession of progression.

This steady increase in the pauper business is a social problem of the greatest importance. The number of chronic paupers, deserted and feeble minded children and hopeless insane is constantly growing and hovers like a

dark and gloomy spectre over the prospects of the future. The time is not far distant when society, for its own protection, will have to enact laws to stop it. The laws of to-day have no bearing on any phase of the evil except in caring for the products. When you can go into the overseers of the poor department in any city in the State and trace back successive generations of hundreds of chronic paupers of to day, it makes one stop and consider. It also makes one stop and think when you go into a reformatory institution for either young men or young women, and upon examination find that over 75 per cent. of the inmates are the children of people who have been aided as paupers by the various cities and towns. A visit to any insane asylum will still further impress you. When you run across patient after patient, either a chronic insane case or a hopeless imbecile, whose family tree is firmly rooted in the pauper books of some city or town, you naturally ask yourself the question. "Where is it all leading to?"

You marvel at the futility of the law and wonder if it is in the range of possibilities to even check the evil. To my mind one of the most important needs of to-day is the enactment of laws relative to marriages. This may seem peculiar, but there is no gainsaying the fact that bad marriages have had more to do with swelling the pauper lists than any other three causes combined. There is no place where this fact is so patent as in our office. Let me give you some instances of the unions that have come under our notice. A widower with three children—whose



wife had been aided up to the time of her death—while serving a sentence as a common drunkard, a few weeks after the funeral, met a female drunk in jail who suited his fancy and when their terms were up they were married. The fact that she had an illegitimate child was no bar to the bans. Since the event, some three years ago, two children have been born to them. He is in jail at present, while she is in the almshouse. When his time is up they will resume housekeeping and keep it up until he is arrested again.

A girl of low intelligence, but of a saving nature, worked in the mill until she had accumulated about \$100. She had been “going with” a fellow who was a loafer and a drunkard. He went off to sea and was gone a couple of years. He came back without a penny, but anxious to get married. The girl was agreeable, and in order to make him presentable, purchased a new outfit for him and also bought the ring. They were to have been married on a Saturday evening, but by Saturday noon he was hopelessly drunk and had pawned his new outfit together with the wedding ring. Did she declare the marriage off? Not at all. She pulled him together, redeemed the outfit and the ring and they were married the following week. They and their growing family are steady customers now. And so they go without number. Bridal couples come direct from the clergyman or lawyer to this office for aid. Fully 80 per cent. of the police court marriages work back on the pauper department.

This it is that forces upon one's mind the need of laws relative to marriage. Not only a physical standard should be established but also a standard of intelligence as an absolute requisite. In no other way can the evil be checked. Just so long as physically dilapidated, vicious, criminal and ignorant men and women are permitted to be married and raise families, just so long will the pauper department thrive at an expense that is sure to be on the increase as time goes on. Your prisons, hospitals, homes and asylums will never want for inmates, and your list of chronic outdoor paupers will be lessened only by increase of the population at the almshouse. The children of such unions have absolutely no chance. They are continual subjects for pauper departments, from the time they are ushered into the world by a city doctor until they are stowed away in Potter's Field, in a city coffin, at the expense of the municipality.

There is one item of expense in our expenditures that should be reduced considerably. I refer to the cash allowances. As you know, they are granted only by vote of the entire board. They have gone up too high and steps should be taken immediately to reduce the amount considerably. A committee was appointed to do this last year but they never made a final report. There are many allowances that have been running on for years and should be shut off, as the object for which they were granted has ceased to exist. For instance, many of the allowances for the care of children have run on until the present, although

many of the children have reached an age when they should not only be self-supporting but should be able to assist those in their family who are now dependent. A committee should be appointed at once to revise this list and they should attend to the matter immediately.

In the care of the sick and insane we are powerless to bring about much reduction. During the year I have transferred from the different insane hospitals 19 patients to the city farm. This fact kept the cost of insane lower than it otherwise would have been. Of the number returned eight have been discharged as cured and are now earning their own living outside, one has gone out of the State with her folks and is no longer an expense to the city, and three others are boarding outside of the institution. Still, with all there is an ever increasing amount to be paid yearly. The number of insane is greater each year and that item of expense was never as large as this year. In 1904 all the insane will be chargeable to the State and their support will be removed from the pauper department.

In our local hospitals we have cared for 127 city patients during the year at an expense of \$4,243.55. The price per week is \$3.50 in all cases except in contagious disease cases, when it is \$10 per week. On the matter of contagious diseases I do not think that the overseers of the poor should be compelled to pay the expenses. That payment pauperizes the patient the same as receiving aid. The public statutes give the right to acquire a settlement

in any city or town in the Commonwealth to a man who resides five continuous years in that place and pays all State, county and municipal taxes for three years out of that five, and to a woman who resides five continuous years, provided they do not receive pauper aid during any of those years.

A settlement in a place carries with it certain rights to the individual. In contagious disease cases his commitment to an isolated hospital is not a matter of his own choice but one of public safety. This being so, it does not seem right that he should be deprived of any statute rights that are coming to him when he is so deprived, through a force of circumstances over which he has no control. For instance, take the case of that woman who had smallpox in Chelsea in 1899, and for whose support in the pest house there this department paid \$176.02. That woman had a settlement in Lowell through her husband. They had resided for the past four years in Chelsea and in all probability intend to stay there for good.

It is to her advantage to gain a settlement in that place where she intends to remain for life. Her friends and associates are there, and should she be reduced to poverty, she would doubtless prefer to be provided for in that place. She had already put in four years there in the acquiring of that settlement when she was taken ill. Now it wasn't through any choice of hers that she was removed from her home to the smallpox hospital; that was done in the interest of public health. Personally she



would have preferred to stay in her own home, where she would not have been an expense to any municipal department and where she would undoubtedly have received as good care as elsewhere. But the safety of the neighborhood demanded that she be removed. Because she could not afford to pay \$80 a week for care and doctoring she was made a public pauper and deprived of gaining a settlement in Chelsea until five years after the date that aid had been given. There is nothing right or just about that. No person should be pauperized except by his own free will. All charges for the care of contagious disease cases should be paid from the appropriation of the board of health.

There is a great increase in the business of the dispensary. The increase is more than commensurate with the increase of population. The number of cases treated during 1900 was 2271. The number of prescriptions compounded was 7240. The cost was as follows : Salary of dispensary clerk, \$886.48 ; cost of medicines and compounding, \$638.68 ; making a total of \$1,525.11. This is certainly a good showing. The different district physicians have been punctual in their attendance, and it is considerably to their credit to note the fact that there has not been a single complaint against any one of them from their respective districts during the year. When you take into consideration the fact that they have answered collectively over 650 calls you can readily see that this is no idle praise.

There is great danger of an abuse of the dispensary in this respect : in treating patients there who can afford to pay for the services of a physician. It should be generally known and the patients should be made to understand that the dispensary is for poor people only. It is not doing justice to the medical profession to allow people of means to get their medical advice and medicines free. The number of prosperous appearing people who apply for medical aid there is daily on the increase, and the board should give this matter their attention this year.

In the cost of the ambulance department the total amount expended is raised almost \$500 by extra work. The entire width of the yard in front of the stables has been concreted, at a cost of \$295.66. The repairs on No. 1 ambulance included a new set of wheels, with rubber tires, together with a thorough overhauling and new paint. This expense was a trifle over \$200. The ambulance service stands high in the estimation of our citizens, and it should be the effort of the board to maintain its high efficiency. It will be absolutely necessary to purchase two new horses immediately, as two of the three there now are not equal to the work. The number of calls during the year was as follows : transferring sick patients, 708 ; accident calls, 332 ; not used, 63 ; total, 1103 calls.

During the year we have caused the burial of 127 people, as follows : adults, 81 ; minors, 40 ; still borns, 6 ; found dead, 9. The total expense for burials was \$778.



Each succeeding year finds the number of children to be cared for larger than before. The year 1900 has been no exception. This is the branch of the secretary's work that is attended with more doubt and dissatisfaction than all of his other duties put together. No matter how callous one becomes it is simply impossible to divest one's self of all feeling of sentimentality. "The ties that bind" will appeal to you, and even though you feel that it is your duty, both to the State and to the child, to take it from its parents, still, it is always easier to decide upon such a course of proceedings than to put the act into operation. I have always tried to keep them together, but in some cases it is impossible.

The depravity of many parents makes it imperative for the city to take the children and remove them from the scenes with which they are accustomed. The general public have no idea of the large number of children we are called upon to care for during the year. In the statistical report will be found the cost of caring for 73 children who are in permanent homes. Besides those I have had 33 others who have been placed out, at no expense to the city for their maintenance, but who are still under our control. Of the last number they were all between the ages of 4 years and 10 years and are the children of worthless parents.

The above number represents the total number I have had to place permanently during the year. It does not represent the many more who are cared for by us temporarily.

That number would reach into the hundreds, taking those in the farm and those outside. The past experiences of some of these children is pitiable. Their views of life and home would be a revelation to all not accustomed to meet with them. They get together and tell about how their father got drunk and how their mother got drunk with as little concern as we would converse on any ordinary topic. They analyze the good and bad qualities of their parents before they are seven years of age, and it is not an infrequent occurrence to find some of them who openly express the hope that they will never see their father or mother again. The knocks they receive generally brighten them up, and many of them are away above the average in understanding and ability to learn. The amount of badness they know is really astounding. Familiar with all kinds of crime, they know all of its attending scenes. An ordinary "child of the slums" knows more of the wickedness in life at the age of ten or eleven years than is generally known by the average man of thirty. They are the rawest of raw material. It is no easy task to fit them into the mould that makes good citizenship.

I desire to call the attention of the members to some changes in the department which I think would be beneficial. I am totally opposed to the admission of any child over two years of age to the almshouse. The mind of a child is a sensitive organism and impressions made thereon are always lasting. The impressions the child gets in the almshouse, in close communion

with the lowest of the low, can not but be injurious. I would recommend that the board take the house that was formerly used by the teacher and chaplain, which is now idle, and that it be fitted up as a nursery and home for children. For the little outlay this would occasion, the amount of good to be accomplished would more than justify it. The house has about twelve or fourteen rooms, is situated outside of the almshouse and is in every way well fitted for the work. The cost of maintenance would not be heavy.

As is well known, I am now, and always have been, a firm advocate of removing all the outdoor relief supplies from the farm. There is nothing in common between the departments in this respect and they should be separated. There is ample room at the ambulance yard to relocate the wood yard and to fit up a city store. The expense of fitting up the store would be trivial, as the unused sheds could be utilized. However, I have alluded to this so often that it must be wearisome to you now. I would ask that a committee be appointed to examine into the matter and report as soon as possible.

In conclusion, I desire to publicly thank the members of the board, the officials and employees thereof, for their hearty co-operation and wish them a prosperous future.

M. J. COURTNEY,

*Secretary.*

RECEIPTS OF DEPARTMENT OF OUTDOOR RELIEF FOR 1900.

	Credited to General Treasury Fund.	Credited to Appropriation.	Total.
January .....	\$ 95 07	....	\$ 95 07
February.....	429 52	\$34 00	463 52
March.....	2,273 39	....	2,273 39
April .....	141 23	....	141 23
May.....	392 82	24 90	417 72
June .....	45 71	8 85	54 56
July .....	374 68	14 50	389 18
August .....	741 65	14 25	755 90
September .....	861 91	9 40	871 31
October .....	296 27	6 95	303 22
November .....	623 96	10 60	634 56
December .....	329 39	19 75	349 14
Total.....	\$6,605 60	\$143 20	\$6,748 80

AMOUNTS RECEIVED FROM CITIES AND TOWNS  
For Aid Rendered in This City.

CITIES.		TOWNS.	
Boston .....	\$216 75	Groveland .....	\$13 00
Beverly .....	12 00	Maynard .....	9 00
Lawrence .....	307 25	Uxbridge.....	26 50
Fall River.....	39 00	Ware .....	99 05
Fitchburg .....	36 70	Tewksbury .....	18 00
Gloucester ....	59 00	Dracut .....	9 50
Holyoke .....	10 50	Westford .....	32 00
Chicopee .....	39 35	Amherst .....	31 25
Cambridge.....	3 00	Provincetown .....	132 00
Newburyport .....	250 75	Chelmsford .....	18 00
Haverhill.....	75 60	Hudson .....	2 72
Salem .....	64 25	Monson .....	2 50
Medford.....	96 90	Attleborough .....	46 00
Marlborough.....	51 75	Winchester.....	16 00
Quincy.....	10 75	Stoneham .....	104 30
Worcester .....	7 00	Shirley .....	307 74
		Amesbury ....	77 75
		Stoughton ....	51 90
		Andover ....	14 65
		Concord.....	6 20
		Framingham.....	3 00
		Pepperell .....	172 20
		Shelburne .....	1 50
		Royalston .....	27 00
		Clinton.....	4 50
		Billerica .....	43 00
			\$1269 26
	\$1280 55		

Total amount received, \$2,549.81.



# AMOUNT PAID FOR SUPPORT OF LOWELL'S INSANE DURING 1900.

INSTITUTION.	Rate per Week.	Total Expended.	Number During 1900.	Remaining Jan. 1, 1901.	Number During 1899.	Remaining Jan. 1, 1900
Danvers Insane Hospital .....	\$3 25	\$3,033 46	21	16	19	18
Worcester Insane Hospital .....	3 25	5,853 34	63	27	46	37
Westboro Insane Hospital.....	3 25	459 25	5	3	4	2
Worcester Insane Asylum.....	3 25	1,186 24	7	7	7	7
Medfield Insane Asylum.....	2 80	3,483 71	26	25	22	20
State Farm, Bridgewater.....	2 80	1,674 00	13	10	9	9
State Hospital, Tewksbury.....	2 80	146 00	1	1	3	1
Massachusetts Hospital for Dipsomaniacs..	3 25	61 40	1	1	1	1
Massachusetts School for Feeble Minded...	3 25	1,016 70	6	6	6	6
Totals .....		\$16,914 10	143	96	117	101

Total expense for year 1900, \$16,914 10	Total expense for 1899....\$16,221 55	Total expense for 1898....\$14,420 39
Less amt. rec'd for board ... 1,277 64	Less amount received..... 913 08	Less amount received..... 1,087 45
Total net expense to city, \$15,636 46	Total net expense.....\$15,208 47	Total net expense.....\$13,332 94



On Account of Lowell's Paupers Residing Therein.

CITIES.	TOWNS.
Boston . . . . . \$215 86	Avon . . . . . \$147 00
Worcester . . . . . 41 29	Brookline . . . . . 46 28
Lawrence . . . . . 58 45	Billerica . . . . . 107 13
Haverhill . . . . . 25 00	Blackstone . . . . . 14 75
Fall River . . . . . 36 46	Chelmsford . . . . . 101 10
Salem . . . . . 69 53	Medfield . . . . . 14 00
Lynn . . . . . 61 50	Norwood . . . . . 18 50
New Bedford . . . . . 24 84	Revere . . . . . 8 00
Beverly . . . . . 59 82	
Fitchburg . . . . . 41 00	\$456 76
Holyoke . . . . . 114 00	
Newburyport . . . . . 64 25	
North Adams . . . . . 18 00	
Springfield . . . . . 90 38	
Somerville . . . . . 91 00	
Waltham . . . . . 11 25	
Medford . . . . . 35 72	
\$1058 35	

AMOUNTS PAID FOR LOWELL'S DEPENDENT CHILDREN, OUTSIDE OF  
ALMSHOUSE.

IN INSTITUTIONS.

Institution.	Rate per week.	Amount paid.	Number during 1900.	Remaining Jan. 1, 1901.
St. Peter's Orphan Asylum .....	\$1 25	\$979 92	19	19
Lawrence Orphan Asylum.....	1 50	598 88	15	10
Salem Orphan Asylum.....	1 50	281 55	5	5
Mass. Hospital for Children .....	3 25	35 28	1	1
Mass. School for Epileptics.....	3 25	298 61	1	..
Children's Hospital, Boston .....	7 00	48 00	1	..
Middlesex County Truant School.....		17 86	1	1
Perkins Institute for Blind.....		22 99	1	1
Total .....		\$2,283 09	44	37

AMOUNTS PAID FOR LOWELL'S DEPENDENT CHILDREN, OUTSIDE OF  
ALMSHOUSE.

IN PRIVATE FAMILIES.

	Rate per week.	Amount paid.	Number during 1900.	Remaining Jan. 1, 1901.
Mrs. Kittredge, Billerica.....	\$1 50	\$320 54	4	4
Miss Webster, Lowell.....	2 00	119 30	3	2
Mrs. Mansfield, Pelham.....	1 75	351 25	5	5
Mrs. Deneault, Lowell.....	1 75	91 25	1	1
	per month.			
Patrick Murphy .....	8 00	96 00	2	2
Miss Kehoe.....	8 00	96 00	2	2
Charles McDermott.....	5 00	60 00	1	1
Rose Kiernan.....	10 00	120 00	2	2
Ellen Tully .....	7 00	84 00	3	3
Charles Riley.....	7 00	84 00	2	2
Mary Murray.....	5 00	60 00	4	3
Total .....		\$1,482 34	29	27

Total number during 1900.....73  
Total number remaining Jan. 1, 1901.....64  
Total amount paid.....\$3,765 43

# COST OF SUPPORTING LOWELL'S SICK POOR IN LOCAL HOSPITALS FOR YEAR 1900.

	St. John's Hospital.		Lowell Hospital.		Lowell General Hospital.		Total.
	City Cases.	State, City and Town.	City Cases.	State, City and Town.	City Cases.	State, City and Town.	
January .....	\$288 00	\$113 71	\$ 32 85	.....	.....	.....	\$434 56
February .....	218 50	38 85	.....	\$3 57	\$38 00	\$ 7 14	306 06
March .....	170 00	106 57	10 00	151 43	36 50	10 00	484 50
April .....	126 00	50 43	.....	.....	44 50	44 29	265 22
May .....	145 25	79 86	.....	20 00	15 50	29 00	289 61
June .....	104 00	39 26	7 50	59 23	31 50	71 00	312 54
July .....	122 25	148 84	.....	45 00	22 00	.....	338 09
August .....	174 75	94 85	.....	.....	59 50	62 00	391 10
September .....	192 50	42 14	.....	16 43	18 00	30 00	299 07
October .....	175 00	111 56	96 00	.....	12 50	25 00	420 06
November .....	206 00	73 27	.....	.....	.....	.....	279 27
December .....	201 00	135 69	50 50	36 28	.....	.....	423 47
Total ....	\$2,123 25	\$1,035 03	\$196 85	\$331 99	\$278 00	\$278 43	\$4,243 55

NUMBER OF PERSONS IN FAMILIES AIDED DURING YEAR OF 1900.

	City Cases.		State, City and Town.		Total.
	Males.	Females.	Males.	Females.	
January .....	398	619	133	150	1300
February .....	359	514	126	146	1145
March .....	382	585	137	165	1296
April .....	292	470	75	76	913
May .....	251	443	56	72	822
June.....	272	416	44	62	794
July .....	241	348	67	64	720
August .....	195	327	54	71	647
September.....	217	344	51	66	678
October.....	262	420	50	75	807
November.....	292	465	53	73	883
December .....	385	540	96	123	1146
Total,	3546	5491	942	1143	11,122

NUMBER OF HISTORIES OF NEW CASES TAKEN  
DURING YEAR OF 1900.

January.....	48
February.....	30
March.....	27
April.....	25
May.....	23
June.....	31
July.....	21
August.....	26
September.....	33
October.....	51
November.....	49
December.....	47
<hr/>	
Total.....	411



**TOTALS OF OUTDOOR AID FROM JANUARY 1, 1900, TO JANUARY 1, 1901.**

	Lowell Cases.				State, City and Town.				Total.
	Wood.	Coal.	Provisions.	Orders.	Wood.	Coal.	Provisions.	Orders.	
January .....	\$159 31	\$292 50	\$592 94	\$135 00	\$32 19	\$64 50	\$132 06	\$26 50	\$1,435 00
February .....	150 11	263 16	521 27	138 00	28 89	56 34	121 73	18 50	1,298 00
March .....	156 16	278 25	578 47	147 00	35 84	69 75	142 53	29 50	1,437 50
April .....	240 44	.....	468 87	136 00	35 06	1 00	69 13	12 00	962 50
May .....	218 65	.....	435 28	133 00	30 35	.....	58 72	26 00	902 00
June .....	206 15	.....	413 28	137 00	22 85	.....	45 72	17 50	842 50
July .....	208 11	.....	407 20	139 00	28 89	.....	57 80	21 50	862 50
August .....	201 47	.....	390 90	147 00	30 53	.....	59 10	23 50	852 50
September .....	198 27	.....	382 51	161 75	28 73	.....	55 49	17 50	844 25
October .....	257 70	.....	491 37	153 50	35 30	.....	68 63	29 50	1,036 00
November .....	270 59	.....	530 16	171 00	35 41	.....	66 84	23 50	1,097 50
December .....	248 27	164 41	633 90	182 00	41 73	23 59	100 10	28 00	1,422 00
Totals .....	\$2,515 23	\$998 32	\$5,846 15	\$1,780 25	\$385 77	\$215 18	\$977 85	\$273 50	\$12,992 25

MONTHLY CASH OUTPUT, INCLUDING PAY ROLLS, JANUARY 1, 1900, TO JANUARY 1, 1901.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Ambulances .....	\$286 52	\$482 00	\$316 23	\$289 58	\$323 91	\$537 52	\$301 11	\$236 74	\$362 57	\$308 69	\$580 21	\$363 40	\$4,388 48
Cash Allowances.....	268 08	292 36	287 80	319 92	313 19	315 42	314 62	334 62	325 57	359 91	335 00	359 45	3,825 94
Cities and Towns.....	40 50	165 50	127 94	28 97	58 45	16 00	464 63	125 75	98 57	72 64	326 41	19 75	1,515 11
Coffins and Interments.....	15 00	99 00	10 00	.....	.....	44 00	223 00	3 00	21 00	120 00	112 00	131 00	778 00
Commonwealth.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,576 05	2,576 05
Dispensary .....	99 07	80 31	191 67	234 56	70 00	200 47	80 98	68 00	137 74	133 02	85 50	143 79	1,525 11
Hospitals and Institutions...	560 68	425 82	4,845 18	388 22	415 31	4,532 23	493 97	516 80	4,355 79	582 98	461 12	4,157 64	21,735 74
Orders from Almshouse.....	1,183 50	1,089 00	1,237 50	800 50	745 00	685 00	700 00	679 00	662 00	847 00	877 00	1,166 87	10,672 37
Orders on Stores.....	135 50	162 50	156 20	173 45	182 25	178 25	178 00	147 50	164 00	189 00	252 47	190 09	2,109 12
Physicians.....	160 96	94 30	124 30	167 96	104 30	160 61	91 29	84 30	90 30	190 95	104 29	151 99	1,525 55
Secretary's Office.....	366 40	327 63	405 49	350 66	407 64	515 26	330 20	348 32	324 38	378 20	333 86	399 82	4,487 86
Sundries.....	2 43	.....	6 34	.....	.....	.....	.....	.....	.....	.....	.....	.....	8 77
Totals.....	\$3,088 64	\$3,218 42	\$7,708 65	\$2,733 82	\$2,620 05	\$7,184 76	\$3,177 80	\$2,541 03	\$6,541 92	\$3,182 39	\$3,487 86	\$9,659 76	\$55,148 10

FINANCIAL STATEMENT OF THE PAUPER  
DEPARTMENT FOR 1900.

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CREDITS.

Appropriations :	
Almshouse .....	\$40,000 00
Outdoor Relief.....	47,000 00
Receipts to credit of Department :	
Almshouse.....	11,619 16
Outdoor Relief.....	143 20
Additional appropriations :	
Almshouse .....	5,439 48
Outdoor Relief.....	8,004 90
Total Credits.....	<hr/> \$112,206 74

DEBITS.

Expenditures :	
Almshouse.....	\$57,058 64
Outdoor Relief.....	55,148 10
Total Debits .....	<hr/> \$112,206 74
Receipts of Department transferred to General Treasury Fund :	
Almshouse .....	\$1,185 28
Outdoor Relief.....	6,605 60
Total.....	<hr/> \$7,790 88

Total Expenditures of Department...	\$112,206 74
Less amounts received by General Treasury Fund.....	7,790 88
	<hr/>
Total.....	\$104,415 86
Less amounts paid to Almshouse by Outdoor Relief.....	10,672 37
	<hr/>
	\$93,743 49

Total Expense of entire Pauper Department for 1900, \$93,743 49

Respectfully submitted.

M. J. COURTNEY,

*Secretary.*

REPORT

OF

INSTITUTIONS AT CITY FARM,

LOWELL, MASS.

FOR THE YEAR 1900.

# Superintendent's Report.

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LOWELL CITY FARM, Jan. 1, 1901.

*To the Overseers of the Poor :*

GENTLEMEN :—As required by your rules, I submit the following report as Superintendent of the Almshouse and Workhouse for the year ending December 31, 1900.

## APPROPRIATION.

The amount desired for the running expenses of the Institutions together with that necessary for permanent improvements and repairs was \$48,000, and the Committee on Appropriations was asked for this amount.

The committee visited the Farm, looked over the suggested improvements, admitted that they seemed necessary, and then appropriated \$40,000, or \$2,000 less than the original appropriation for 1899.

It was expected that with a larger number of inmates, and many repairs needed, the Institutions could be run with less money than the year previous.



In November, as the original appropriation was running low, and as the fences and sheds had been damaged by the high wind, an additional appropriation of \$4,000 was made.

## IMPROVEMENTS AND REPAIRS.

An itemized list of improvements and repairs was given the Committee on Appropriations on February 9, 1900, which carried \$7,816, the principal items being for new shed over piggery, coal elevator, private lighting plant, all fire escapes and window frames to be painted, new baths for women's building as recommended by inspector of plumbing, shower baths for men, new steam pump and steam traps.

The other items were for small amounts, some of which have been done from appropriation, as the following :

A maple floor was laid in the officers' hall and sitting-room, and where the hardest wear came it was covered with rubber matting, as was also the entire hall on this floor, five hundred pounds of matting being used.

An elevator was built in the men's hospital, running from pantry in basement to the second floor. This allowed the food to be distributed more quickly, saved much running up and down stairs, and also, what is as important as the others, saved spilling food along the halls and stairways.

A new 6 x 4 x 6 Deane steam pump was put into boiler room to replace the old pump, which had been in constant use for the past seven years.

A Detroit lubricator was attached to pump.

As an experiment a Bickel steam trap was placed on the return from the Institution kitchen line, where the steam kettles always caused considerable condensation, and was on that account very hard to regulate. So far the trap has done the work very well.

The boundary line on Chelmsford street was defined and seven hundred feet of slat fence was built, similar to that along the avenue leading to the Farm buildings. All white fences were thoroughly painted.

Maple shade trees were planted at edge of sidewalk.

Formerly in teaming coal from the side track to the boiler house it was necessary to drive into the female insane yard, which was very inconvenient as well as undesirable. Now the fence is changed; by cutting off a small corner of the yard, the coal is delivered directly from road.

One wing of the attic of the men's building has been piped for steam.

This was done by Farm labor, as was a great deal of plastering, painting and whitewashing.

A bath was placed on second floor of women's insane building.

I have no recommendations to make for the coming year. In years past I have done so, but for want of money very little was done. Besides the regular appropriation,

a certain sum should be devoted to permanent improvements and repairs each year, until the place is brought back where it should be.

A few thousand dollars more each year for a few years would not add a great deal to the City's debt, and if carefully expended would improve the institutions in every way.

Allow me to state some of the repairs that are needed badly:—

The laundry building is in a condition that is next to dangerous. The stairs leading to basement are so old and weak that the soap stock for making the soft soap cannot be taken down then in the original packages. The first floor, on which stand the washing machines and extractor, was never intended for the use given it, and it is old and weak.

There should be a new floor with heavier timbers to lessen the vibration and it should have a covering similar to that in the kitchen.

One washing machine is practically useless and should be replaced by a new 150-shirt washing machine similar to one purchased a few years ago, from Crawford Laundry Supply Co.

The iron boiling tank in basement should be replaced by a new one, and the plumbing needs overhauling.

A bulkhead and stairs from the boiler house yard to the basement should be built.

The shed over the piggery has been mentioned many times, but as yet has never been built. If it were built the wagons and farm tools would not have to stand out in the open air as they do at present, for there would be plenty of storage room as well as comfortable quarters for carpenter, blacksmith and tinsmith shops, loafing room for men on stormy days and cook room for piggery. The building would be about 210 feet long by 30 feet wide and should be one story and a half high. There is old slate enough here to roof one-half the building.

New baths were recommended by the inspector of plumbing. They were to be placed in the basement under the new wing of the women's hospital.

A shower bath was placed in the basement of insane women's building but was used very little, as any one bathing a patient had to take a shower bath herself. This style of bath is not recommended for the class of patients who cannot work it themselves.

A bath of the Gegenstrom pattern would be very useful in the men's bath room.

The loss each year in coal because of the poor facilities for handling it is considerable, and needs attention quite as much as anything.

An elevator at side track or an extension of side track to boiler house would be satisfactory, but in the latter case, the boiler house would have to be enlarged. It would save so much handling, however, that this would



be the best thing to do. The road has been surveyed for this and plans drawn for some years.

For a private lighting plant a new high pressure boiler with new engine and dynamo would be needed.

It would be economy if this place could furnish its own lights, and also the water for laundry, steam and a few other purposes where large quantities are used. The cost of gas and water are at present over \$2,200 per year.

Two steam traps should be placed on main returns.

Six more telephones should be added to private system.

Four horses are needed for delivery wagons and use on Farm, and the provision wagon has been used so many years that its wheels are in dangerous condition.

All fire escapes, window frames and sashes, barns, sheds and other wooden buildings should be painted.

A better system, or in fact any system of ventilation is desired in some of the buildings. In the insane men's sitting-room there is no means of airing the room but the windows. In the nursery the condition is the same, and the entire women's building should have improvements in this respect.

The roof and ventilators of the men's hospital should be made tight, for now when it storms the rain beats up under the slate and comes through the single boarding of the attic floor to the beds of the patients on the second floor. It is so bad sometimes, in places, that the beds have to be moved about to escape a wetting.

If the ceilings of the large wards in this building were sheathed with stamped metal ceilings, that barn-like effect would be removed and it would also add to the comfort of the patients.

Many times a patient of a childish or demented character who cannot be taken care of any longer at home by relatives or friends should be sent to some place like the hospital. But here we have no accommodations for this class of patients, who, as a usual thing, are able to pay for their support. If there were only a wing for such special cases where they could have a room alone, and receive a little better food, with more care and attention than can possibly be given with the existing accommodations, it would fill a want of long standing.

The same is true of the women's building, where there should be a few rooms for cases needing quiet and special care. Now, when an acute case of insanity is admitted it is necessary to place her in the ward with the others. True, she has a room to herself, but the noise made by the old cases can be heard very plainly and would be enough of itself to injure a nervous person's mind.

The increasing number of insane shows the need of a few quiet rooms where their cases can be watched, for many times their minds are only temporarily affected by overwork or other cause, and are simply in need of quiet and rest or sleep, with proper nourishment and care.



	Males.	Females.	Total.
Insane remaining Jan. 1, 1900....	28	80	108
Insane admitted, 1900.....	19	42	61
Discharged, 1900.....	15	42	57
Remaining Jan. 1, 1901.....	32	80	112
Total for year.....	47	122	169

Padded cells have frequently been called for, but as yet the calls have not been answered. To show how badly they are needed let me give you the number of cases of delirium tremens treated during the year. There were sixty men (60) and twenty-two women (22), a total of eighty-two (82). After looking at these figures, can you delay any longer?

With existing accommodations, these cases are a cause of constant worry and continual watching until the delirious stage is passed, and the attendants in charge deserve considerable praise, as there was no fatality from delirium tremens alone.

Just here, I wish to call your attention to an abuse which you have the power to rectify. That is when people send for the ambulance to remove some friend who is "sick" from their lodging to the Farm. When they reach the Farm they have developed quite a case of delirium tremens. If this was occasional, nothing would be thought of it, but it has been frequently done. Why, one woman was "sick" four times during the past year, and as soon as she was well enough, was discharged, as were the others.

In allowing this to continue you encourage excessive drinking, for they know they can avoid arrest if they send for the ambulance in time or secure a permit to be admitted.

Of course there are exceptions, but the majority are old cases, and I believe they should be charged with drunkenness and be made to answer in court to that charge. much more than a good many arrested on the street.

### ALMSHOUSE AND WORKHOUSE.

The number of inmates cared for has been somewhat larger than in 1899.

The daily average for 1899 was 378; for 1900, 410, or 32 more for each day of the year.

On January 1, 1900, there remained in the Almshouse a total of 357, 149 males and 208 females. In the Workhouse there were but 27. 9 men and 18 women.

During the year there were admitted to all departments of the Almshouse 764 persons, 410 males and 354 females.

Eighty-four men and 91 women, a total of 175, were committed to the Workhouse for minor offences, mostly drunkenness.

There were discharged from the Almshouse 383 males and 318 females, and from the Workhouse 75 males and 92 females, leaving on January 1, 1901, 176 males and 244 females in the Almshouse, and 18 males and 17 females in the Workhouse.

The total number of persons supported was 652 males and 671 females, 1323 in all, or 171 more than in 1899.

There were 97 deaths and 17 births.

There are always more inmates in the Almshouse in the winter than in summer. This is especially true of the men, and at least one-third are young, strong, and able bodied and should be self supporting.

A year or two ago your board passed an order that men applying for aid should be required, if out of work, to come to the Farm and work there for their provisions and fuel, being allowed one dollar a day and their dinners for two or three days, according to the amount of the order they were to receive.

In January, 1900, there were 32 men who came out to work this way ; but they arranged it so as to be here for four dinners and about all they did was to spend their time here. The latter part of January, I arranged to allow \$1.50 for sawing each cord, but had the wood measured and allowed them to do it as quickly as they liked. The number dropped from 32 in January to 17 in February, 8 in March and 4 in April. In other words, the number dropped to those really wanting to work for the help they receive from the City.

During the year there were 93 men to work for provisions and fuel, for which credit was given to the department of outdoor relief.

Besides the above 93 orders, \$4,010.50 worth of wood and coal was delivered to outdoor poor, and \$711.16 worth to other city departments.

One thousand five hundred and fifty-five tramps were entertained.

### SEWING ROOM.

The first of the year many of the departments were found to be very short of clothing ; indeed, some did not have enough to change their patients every week, so it was impossible to bathe and keep them clean as they should be. So special effort has been made to remedy that, and the following articles were made in the sewing room this year : --

Aprons.....	238	Towels....	376
Dresses.....	376	Underskirts....	362
Jumpers.....	252	Waists.....	92
Pillow slips....	474	Women's underwear....	399
Sheets.....	472	Other articles....	612
Shirts.....	581		

### SUPPLIES.

The new law which went into effect last fall, requiring that certain supplies be purchased from some of the State Institutions, through the General Superintendent of Prisons, is working nicely. Now we buy hand made cloth, shoes of all kinds, as well as clothing, stockings and many other articles, for which there is a constant demand, of a very good quality at a very reasonable price.

## FARM PRODUCTS.

The usual amount of farm produce was raised and on the whole the result was pleasing. While such an enormous crop of potatoes as was reported last year was not raised this year, the total value of all crops raised was much greater than that of last year.

The cash sales from farm produce amounted to \$325.64, only the surplus being sold.

## FARM PRODUCE, 1900.

Apples.....	76 bbls.	Hay, English.....	66.56 tons
Beets.....	365 bush.	Hay, 2nd crop.....	8.15 tons
Beef killed.....	610 lbs.	Hay, meadow.....	23.27 tons
Cabbage, early....	2640 heads	Oat feed.....	17.00 tons
Cabbage, late....	11,105 heads	Onions.....	207 bush.
Carrots.....	141 bush.	Parsnips.....	46 bush.
Cider.....	1493 gals.	Potatoes.....	436 bush.
Corn, sweet.....	237 bush.	Poultry killed.....	75 lbs.
Corn, field (shelled).	125 bush.	Pork killed.....	13,458 lbs
Corn, fodder.....	30 tons	Squash.....	20,817 lbs.
Ensilage.....	25 tons	Tomatoes.....	189 bush.
Eggs.....	847 doz.	Turnips.....	233 bush



## EXPENSES FOR 1900.

Expenses for Almshouse.....		\$41,369.79
Pay Roll.....		11,400.41
Expenses, wood yard.....		2,348.50
Pay Roll.....		1,060.23
		<hr/>
		\$56,178.93
Total credits.....		11,619.16
		<hr/>
Running expenses of Almshouse and wood yard..		\$44,559.77
Expenses, wood yard.....	\$2,348.50	
Pay roll, wood yard.....	1,060.23	
Board of men and horses.....	728.00	
	<hr/>	
	\$4,136.73	4,136.73
		<hr/>
Running expense of Almshouse.....		\$40,423.04
Average inmates per day.....		410.
Cost per inmate per week.....		\$1.89

Respectfully submitted,

ALBERT PINDER,

*Superintendent.*



# ANNUAL REPORT

OF THE

## BIRTHS, MARRIAGES AND DEATHS

IN THE

## CITY OF LOWELL

For the Year 1900.



# CITY OF LOWELL.

CITY CLERK'S OFFICE, }  
October 1, 1901. }

TO THE HONORABLE THE MAYOR AND CITY COUNCIL OF THE  
CITY OF LOWELL:

GENTLEMEN, — The Annual Report of Births, Marriages and Deaths for the year 1900, as of record in the office of the City Clerk, is herewith submitted.

## BIRTHS.

The total number of births in the City of Lowell returned and recorded for the year 1900 was 2574.

### BIRTHS BY WARDS.

	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ward not given.	Total
WARDS —	One	Two	Three	Four	Five	Six	Seven	Eight	Nine		
Whole Number ....	183	280	245	217	287	354	613	181	206	8	2574
Males.....	87	151	124	124	152	187	325	92	112	6	1360
Females .....	96	129	121	93	135	167	288	89	94	2	1214
American Parents...	35	23	50	43	32	58	42	64	48	1	396
Foreign Parents.....	121	222	148	127	200	201	496	59	118	2	1694
American Father,											
Foreign Mother...	16	16	26	23	29	45	34	18	13	3	223
Foreign Father,											
American Mother.	11	18	20	20	25	47	39	22	27	2	231
Parents' Nationality											
Unknown.....		1	1	4	1	3	2	18*			30
Twins.....			3		4	7	7	1	2		24

\*Born at City Farm.

Still Births not included in above, 118.

Increase over 1899, 155.

## MARRIAGES.

The number of intentions of marriage issued in 1900 was 1142, 116 more than in 1899.

The number of marriages recorded in 1900 was 1135, 120 more than in 1899.

The number of marriages solemnized in Lowell in 1900 was 1050; solemnized elsewhere, 85.

## NUMBER OF MARRIAGES IN EACH MONTH OF 1900.

January.....	78	May.....	76	September.....	114
February.....	101	June.....	149	October.....	127
March.....	38	July.....	63	November.....	123
April.....	92	August.....	95	December.....	79

## NATIONALITY OF CONTRACTING PARTIES.

	GROOMS.	BRIDES.
United States.. .. .	484	481
Canada .. . . .	278	269
Ireland .. . . .	115	155
England .. . . .	77	58
Scotland .. . . .	14	12
British Provinces.....	55	66
Sweden .. . . .	17	12
Austria.....	29	32
Portugal .. . . .	18	16
Greece .. . . .	8	5
Russia and Poland.....	18	11
Other Countries .. . . .	22	18

	GROOM.	BRIDE.
Oldest Couple Married.....	75	70
Youngest Couple Married.....	18	18

Oldest Person, 75. Youngest Person, 15.

Grooms under 21 years, 40. Brides under 18 years, 25.

### DEATHS.

The total number of deaths returned and recorded in the City Clerk's office for the year 1900 was 1878. Of these 26 died in other cities or towns within the state, making the number of deaths returned and recorded as having occurred in Lowell 1852.

Decrease from 1899.....	2
Males.....	953
Females.....	925
Deaths between 80 and 90 years of age.....	71
Deaths over 90 years of age.....	12
Still born.....	118

Statistics in greater detail relating to deaths may be found in the Annual Report of the Board of Health for the year 1900.

Respectfully,

GIRARD P. DADMAN,

*City Clerk.*

TWENTY-THIRD

ANNUAL REPORT

OF THE

BOARD OF HEALTH,

OF THE

CITY OF LOWELL

FOR THE YEAR 1900.



MORNING MAIL COMPANY.  
1901.





## TABLE OF CONTENTS.

---

	Page
Membership and organization.....	6
Plumbing inspection.....	8
Master plumbers.....	9
Journeyman plumbers.....	10
Revenue from plumbers' licenses and renewals.....	12
Compilation of inspectors' returns.....	12
Notices sent from office to abate nuisances.....	13
Undertakers' licenses.....	15
Stable licenses. . . . .	16
Report of inspector of animals and provisions.....	18
Bath house.....	19
Cases of contagious diseases reported.....	21
Deaths from contagious diseases . . . . .	21
Cases of diphtheria and croup reported during the year 1900.....	21
Report of Bacteriologist.....	23
Antitoxin.....	29
Scarlet fever.....	34
Measles . . . . .	34
Typhoid fever.....	35
Places of death.....	36
Small-pox.....	37
Preliminary report on Monbleau family... . . . .	50
Cost of small-pox.....	54
Bills, small-pox.....	56
Deaths from small-pox.....	60
Vaccination.....	61
Small-pox hospital.....	67
Deaths from cholera infantum.....	71
Principal causes of death . . . . .	72
Vital statistics.....	72
Places of death.....	73
Places of interment.....	74
Deaths classified.....	74
Diseases in 1900 compared with 1899.....	75
Death rate.....	75
Table of deaths in each month and year for 23 years.....	76

	Page
Collection of ashes.....	77
Cost of collection of ashes.....	77
Comparative statement of numbers of loads of ashes collected during four months of the summer and four months of the winter of 1900.....	78
Where dumped.....	78
Garbage and market refuse burned at cremator Jan. 1 to Dec. 31, 1900.....	79
Expenses of cremator 1900.....	79
Waste burned at cremator during November.....	79
Number loads swill collected.....	82
Swill, cash account.....	83
Swill exchanged for hay.....	83
Disposition of swill.....	84
Swill licenses.....	85
Swill permits.....	86
Garbage collection and disposal ..	87
Resolutions of Middlesex Women's Club.....	88
History of cremator.....	89
Comparative cost of collection of ashes and swill of Massachusetts cities.....	94
Stable and yard.....	97
Schedule of property.....	98
Division expense charges of office and yard.....	101
Financial statement .....	103
Analysis of pay-rolls of 1900 compared with 1899.....	104
Monthly bills of Health Department for 1900.....	104
Analysis of bills.....	105
Cost of Health Department for year 1900.....	107
Income.....	108
Summary and review.....	109
Table showing rainfall in inches for 23 years.....	112

# BOARD OF HEALTH.

1900.

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EDMUND H. PACKER, M. D., *Chairman.*

JOHN H. MCGUINNESS, *Secretary.*

GEORGE W. FIFIELD.

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## HEALTH DEPARTMENT OFFICERS.

---

H. H. KNAPP, *Agent.*

THOMAS B. SMITH, M. D., *Bacteriologist.*

WILLIAM A. JOHNSON, M. D., *Physician.*

STEPHEN GARRITY, *Plumbing Inspector, and*  
*Member of Plumbing Commission.*

FRED A. BATES, *Inspector Contagious Diseases.*

WILLIAM H. CONNORS, *Plumbing Inspector.*

FRANCIS J. O'HARE, *General Inspector.*

ELIZABETH M. RAFTER, *Registrar.*

# REPORT.

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LOWELL, MASS., January, 1901.

*To the Honorable Mayor and City Council of the  
City of Lowell:*

The Board of Health respectfully submits its twenty-third annual report, covering the operations of the Health Department for the past year, together with a statement of the receipts and expenditures to December 31st., 1900.

Meeting February 7th, attended by Thomas J. Mulligan whose Statute term membership had expired, but the Aldermen refusing to confirm the Mayor's appointment to date, opens the question as to whether the outgoing member should remain until his successor is confirmed.

A ballot was taken for Chairman and Dr. Packer

was elected. A ballot was taken for Secretary and Thomas J. Mulligan was elected. Mr. Mulligan did not vote on either proposition.

It was voted "that the Merrimack Clothing Company be allowed to retain its present bill board space and that the remainder of the space be equally divided between the Opera House and the Music Hall bill posting companies." For this privilege, it was voted that each of the three parties named, be assessed \$13.33 annually. The sum of money, forty dollars, for the above named purpose was collected and paid to the City Treasurer, which, in the opinion of the Board, is a marked improvement over the usual pass system so apt to become demoralizing to parties concerned.

After the appointment by Mayor Crowley and the rejection by the Board of Aldermen of several of the Mayor's appointments, the Board of Aldermen confirmed the appointment by the Mayor of John H. McGuinness as a member of the Board of Health for three years from the first Monday of February, 1900, thus constituting the membership of the Board as follows:

Edmund H. Packer, M. D., Term expires February, 1901.

George W. Fifield, " " " 1902.

John H. McGuinness, " " " 1903.

All the members being present at a meeting held May 24th, Dr. Packer was continued as Chairman and John H. McGuinness was elected Secretary.

### PLUMBING INSPECTION.

#### Number of Applications for Permits :

New buildings.....	106
Old buildings.....	242
Total.....	<u>348</u>

#### Number of Visits Made by Inspector :

New buildings.....	203
Old buildings.....	516
Total .....	<u>719</u>

#### Applicants Examined by Plumbing Inspector as Member of Plumbing Commission :

For Master Plumber's License and passed.	21
For Journeymen Plumber's License and passed .....	1
For Journeymen Plumber's License and failed .....	3

Number of Master Plumber's Licenses granted to journeymen plumbers, they having taken one examination previous .. 16



The Legislature of 1900 framed a law that passed the House but was rejected by the Senate, transferring the examination of applicants for licenses to perform the duties of master or journeymen plumbers, from the different cities to one state official to be appointed by the Governor.

Thinking the examinations might be more difficult after the change, quite a large number of applicants for both were examined by our local Plumbing Commission, thereby changing the status to such an extent that below is given the list of both in the city, Dec. 30th, 1900.

## MASTER PLUMBERS.

The H. R. Barker Mfg. Co.,	Thos. W. Casserley,
John H. Barry,	Joseph Sweeney,
Frank J. Burch,	William Martin,
T. Costello & Co.,	William Tighe,
James Caddell,	John O'Rourke,
J. H. Cocker,	John Blackburn,
Desmarais Bros.,	Eugene A. Shea,
Drury & Green,	Edward J. Carroll,
Wm. F. Enwright,	Thos. Mather,
Farrell & Conaton,	George Deneif,
Merrimack Mfg. Co.,	John E. Shaw & Co.,
Wm. McLarney & Co.,	Wm. F. Devlin,
Ezra N. Nichols,	L. A. Laptz,
M. O'Flahaven,	Hanchett & MacFadgen,
Jeremiah Ryan,	Edward F. Farrell,
John W. Stewart,	E. S. Desmarais,

Scott & O'Day,  
D. H. Wilson & Co.,  
H. H. Wilder & Co.,  
Aaron C. Ladd,  
Daniel Mullen,  
F. W. Proctor,  
Edwin Burgess,  
John J. Saunders,  
John Duncan,  
John Gilchrist,  
Douglass Firth,  
George B. Duncan,  
Timothy F. Hourihan,  
Frank A. Farrell,  
Thos. J. Hessian,  
Robert L. Spiers,  
John F. McCarron,  
Thos. F. Costello,  
Edwin A. Lynde,  
J. F. Conley,  
James Gahagen,

Geo. G. Hanaford,  
Wm. A. Ayer,  
John McDowell,  
John J. Devlin,  
Welch & Danaby,  
F. E. Bassett,  
Welch Bros.,  
Mullaney & Hannon,  
Geo. S. O'Malley,  
Dennis J. Pendergast,  
Edward F. Burns,  
Edward A. Walsh,  
Joseph F. McMahon,  
Finley Chisholm,  
John F. Madden,  
Thos. Livingston,  
W. H. McElholm,  
Joseph P. Meaney,  
Wm. J. Sullivan,  
John A. Connors,  
J. Chas. Massie.

## JOURNEYMEN.

Michael J. Donohoe,  
James S. Roarke,  
Thomas H. Murphy,  
Fred Meyers,  
Adelard Dudevoir,  
John F. Conley,  
F. H. Nichols,  
Edward J. Murphy,  
Oscar P. Smith,  
John H. Kelsey,

Thos. Foster,  
Michael W. Davey,  
Henry Crowley,  
Geo. Durston,  
William E. Curtin,  
Wm. A. Campbell,  
Arthur L. Armitstead,  
John F. Allen,  
John Blackburn,  
Arthur S. Burch,

W. F. Quirk,  
John J. Ball,  
Alex Campbell,  
Wm. E. Connelley,  
John J. Sullivan,  
Thos. F. Counihan,  
George W. Watson,  
Thomas Ellis,  
Wm. H. Murphy,  
John Cleary,  
Thos. F. Sheehan,  
Thos. Welch,  
Thos. Burns,  
John J. Mullaney,  
Walter Jewett,  
Wm. Dow,  
Frank E. Bassett,  
John F. Madden,  
John H. McGuinness,  
John McDowell,  
John H. McBride,  
Daniel F. McVey,  
James O'Hare,  
Donald M. Robb,  
David Stephen,

Edwin Burgess,  
John F. Burns,  
Thos. J. Connors,  
William H. Connors,  
James H. Corcoran,  
Edward W. Devaney,  
Wm. J. Dunn,  
Joseph F. Dawson,  
Daniel B. Donovan,  
Chas. H. Fitzpatrick,  
Douglas Firth,  
Michael R. Golden,  
John J. Gaffney,  
Edward Gibbons,  
Maurice J. Hennessey  
Wm. Kingholm, Jr.  
Richard Ingalls,  
Duncan Kelley,  
Hugh McLarney,  
Patrick R. McQuade,  
John V. McAleer,  
James Norris,  
Thos. Rogers,  
Daniel C. Sullivan,  
Martin H. McGuane.

## BOARD OF HEALTH IN ACCOUNT WITH CITY TREASURER.

## Plumbing examinations and renewals :

## DR.

Received for plumbing examinations (25@ \$2)	\$50 00
"    "    "    renewals.....	28 50
	<hr/>
	\$78 50

## CR.

Apr. 18th.	Paid City Treasurer.....	\$14 50
Apr. 18th.	"    S. Garrity.....	12 00
June 21st.	"    O. A. Libby (printing)...	6 00
July 15th.	"    E. J. Starbuck (plumbing charts).....	9 00
Nov. 15th.	"    City Treasurer .....	30 50
Dec. 29th.	"    City Treasurer .....	6 50
		<hr/>
		\$78 50

## COMPILATION OF INSPECTORS' RETURNS.

JAN. 1ST TO DEC. 31ST, 1900.

Tenements .....	1748
Sinks.....	1805
Cellars .....	1282
Water closets .....	3299
Bath tubs.....	22
Basins .....	47
Vaults .....	218
Cesspools .....	6
Catch basins .....	3
Dry wells.....	3
Barns .....	60
Hen houses .....	19

House drains.....	325
Ash chutes.....	25
Market refrigerators .....	170
Complaints.....	104
Urinals .....	8
Chinese laundries.....	6
Bakeries .....	53
Bar drainers .....	5
Set tubs .....	3
Schools .....	2
Warning signs posted in alleys.....	40

NOTICES TO ABATE THE FOLLOWING NUISANCES WERE SENT  
FROM THE OFFICE DURING THE YEAR 1900.

Untrapped sinks.....	32
“ refrigerators .....	68
“ show cases.....	9
“ ice box.....	1
“ corned beef tank.....	1
“ butter chest.....	18
“ wash trays.....	1
“ bar drainer .....	1
Imperfect sink traps.....	6
Plaster falling from ceiling.....	3
Dilapidated cellar stairs.....	1
To fill an unused well.....	1
Leaky water supply pipes.....	17
“ ice box .....	1
Insufficient water supply to water closets.....	17
“ “ “ “ sinks .....	6
Filthy water closet apartments.....	23
Rubbish in shed.....	3
“ “ yards and alleys.....	97

Rubbish and ashes in cellars.....	40
Uncovered swill barrels.....	1
Remove manure from barn cellar .....	4
Sink water running into cellar.....	3
Defective joints in soil and waste pipes.....	69
Provide receptacles for swill.....	4
No key for water closet pressure cock.....	2
No water supply to water closets.....	28
Clogged water closets.....	35
Broken soil pipes.....	2
Hens in dwellings.....	4
Remove swill barrel ....	1
Clean catch basin.....	1
Sink trap too far from fixture.....	20
Bath tub trap too far from fixture.....	1
Unsealed traps .....	4
To remove pigs .....	4
Broken and leaky water closet bowls.....	20
Improper material for soil waste pipes .....	13
To increase water closet facilities....	1
Dilapidated and rotten woodwork around water closet.....	6
Imperfect ventilation.....	5
No water supply to sinks .....	8
To remove mattresses.....	12
Leaky sink traps .....	9
Clogged drains .....	19
Sink traps without covers.....	5
Open drains .....	18
Broken and leaky sinks.....	5
Overflowing ash barrels.....	8
Leaky vaults.....	2
Leaky sink waste pipe.....	15
Water in cellar .....	4



Dead cat in cellar.....	2
Rotten and leaky woodwork around sinks.....	3
Broken cover on water closet trap.....	1
Clogged sink wastes.....	16
Leaky roofs.....	2
To clean ash pits.....	5
Overflowing dry wells.....	8
Whitewash walls and ceilings of bakeries.....	3
Filthy hallway.....	1
Filthy privies.....	1
Improper drainage system.....	26
Defective roof conductor.....	1
Leaky sink collars.....	3
Provide receptacles for ashes.....	6
Refrigerators draining into water closets.....	3
Personal letters sent.....	40

Permits given to T. F. Fay to clean vaults....	238
“ “ “ “ dry wells..	39
“ “ “ “ barn cellars	4
“ “ F. A. Fox “ vaults.....	74
“ “ “ “ dry wells..	3

#### UNDERTAKERS' LICENSES.

In compliance with “An Act Relative to the Burial of Human Bodies,” Chap. 437, Acts of 1897, the following undertakers were licensed to take charge of the funeral rites preliminary to the interment, removal or cremation of a human body, with the

right to act thereunder in any city or town of the Commonwealth.

Joseph Albert.....	57	Cheever Street
Amedee Archambault.....	395	Moody Street
James W. Brooks.....	16	Market Street
J. B. Currier .....	58	Prescott Street
Peter Davey.....	134	Market Street
J. H. McDermott.....	70	Gorham Street
C. H. Molloy .....	343	Market Street
James F. O'Donnell.....	324	Market Street
Wm. Renaud & Co.....	620	Middlesex Street
John F. Rogers.....	816	Central Street
Peter H. Savage.....	169	Worthen Street
John A. Weinbeck.....	88	Middlesex Street
C. M. Young & Co. ....	33	Prescott Street
Edward J. O'Donnell.....	324	Market Street
Wm. A. Roberts & Co.....	12	Hurd Street
Wm. W. Clark.....		Supt. Edson Cemetery
Dennis J. Maher.....		Supt. St. Patrick's Cemetery

#### STABLE LICENSES.

Permits were granted to erect and occupy stables, as required by the provisions of Chapter 213 of the Acts of the Legislature of 1895, to the following parties:

Martin Fahey.....	600	Merrimack Street
Lauriston T. Boynton.....		Richardson Street
J. A. Weinbeck .....		Wentworth Avenue
Joseph Thibault.....		Cheever Street

Israel Greenberg.....Cor. Chelmsford and Daley Sts.  
McDonald Bros.....Cushing Street  
Mrs. C. W. Needham.....Chelmsford, cor. Forrest  
Israel Greenberg.....Railroad Street  
P. F. Sullivan.....31 Waverley Avenue  
David Chase.....23 Fourth Street  
Boutwell Bros.....Bryant Street  
Louis Weyler.....Burgess Street  
John Pratt.....391 School Street  
Sylvester Bean.....120 Methuen Street

LOWELL, MASS., Jan. 1st, 1901.

*To the Board of Health, Lowell, Mass.:*

SIRS — Since the first day of January, 1900, in my duties as Inspector of Animals, I have inspected and reported to the State Cattle Commission, fifty-eight stables; have identified and released 48 cows, examined 263 cows and 31 young cattle, 240 swine, 4 bulls, 2 oxen and 1 sheep, finding only one cow tuberculous.

I have had three suspicious cases of glanders in horses, only one of which proved to be infected, which is very fortunate as most cities of the state have been badly infected the past few years. This has been largely due to the assistance of the auctioneers and dealers in Lowell in reporting all suspicious cases, thus keeping those who trade in these animals away from Lowell.

Respectfully submitted,

W. A. SHERMAN, D. V. S., M. D.,

*Inspector of Animals.*

## BATH HOUSE.

In the report of the Board of Health for 1894 a brief reference to the lack of bathing facilities in Lowell was mentioned, and a promise made that if sufficient encouragement was given by the public, the Board would give time and study to the end that some plan might be presented to the city for acceptance, which would result in the erection of a building that would provide a suitable place where baths could be taken on any day of the year by both sexes, either gratuitously or at a nominal charge of a few cents for towels and soap. During 1900 this question received very serious attention through the intelligent and energetic work of a few ladies connected with the Women's Club of Lowell, and a public hearing was granted at which a large number of citizens and officials of the city asked the City Council to appropriate a sum of money sufficient to buy a central and valuable lot of land for the purpose of erecting a stone or brick building upon the line of the Brookline Free Public Bath. While not binding themselves or those whom they represented to the payment of any amounts, there was a practically unanimous undercurrent of assumption that large amounts of money would be forthcoming to erect an artistic and ornamental structure for the purposes desired, if the City Coun-

cil would buy the land that it was claimed by them could then be secured at a bargain.

The City Council very naturally declined to buy a "pig in a poke," and the matter was never pressed again by its friends and orators. Now, this is a very important and desirable undertaking for the health and comfort of the population of Lowell, and it ought not to be strangled in its infancy. We believe that any City Council will gladly respond with appropriations covering any amount of private contributions, and the amounts that were impatiently awaiting the opportunity should be uncovered in some way, for the benefit of the city.

The Board of Health believes that the erection of a centrally located, permanent building, for the purpose of free baths is of the first importance to the City of Lowell, and in order to show the good will they have towards the enterprise the writer is authorized to state that there is in the office of the Board of Health fifty dollars to be used as the nucleus of a fund which, when supplemented by the same amount appropriated by the City Council, shall be used towards the erection of a building for public baths that will be a credit to the city, and a perpetual boon to its large population of working people.



## CASES OF CONTAGIOUS DISEASES REPORTED.

	1900	1899	1898	1897	1896
Diphtheria, including croup.....	157	152	156	176	110
Scarlet fever.....	80	173	309	90	76
Measles.....	114	1181	33	1086	346
Typhoid fever.....	85	57	119	105	178
Small-pox.....	23	2			
Totals .....	459	1565	617	1457	710

## DEATHS FROM CONTAGIOUS DISEASES.

	1900	1899	1898	1897	1896
Diphtheria, including croup.....	27	39	36	41	47
Scarlet fever.....		9	6	2	1
Measles.....	1	26		9	3
Typhoid fever.....	17	17	24	18	36
Small-pox.....		1			
Totals .....	45	92	66	70	87

CASES OF DIPHTHERIA AND CROUP REPORTED TO THE BOARD OF  
HEALTH DURING THE YEAR 1900.

	DIPHTHERIA.		CROUP.	
	Cases.	Deaths.	Cases.	Deaths.
January .....	8	3	1	
February .....	7	1	2	3
March .....	3	1	4	3
April .....	7	2		
May.....	5	1	1	1
June .....	7		1	1
July.....	7			

August .....	29	4		
September .....	20		2	
October .....	9	1	2	2
November .....	24	1	1	
December .....	15	1	2	2
	<hr/>	<hr/>	<hr/>	<hr/>
	141	15	16	12

Mortality of Diphtheria..... 10 per cent.

Mortality of Croup..... 75 per cent.

LOWELL, MASS., January 1st, 1901.

*To the Members of the Board of Health.*

GENTLEMEN: I have the honor hereby to submit the annual report of the work of the bacteriological department for the year 1900.

#### DIPHTHERIA.

OFFICE RECORD OF DIPHTHERIA.	1900	1899	1898	1897	1896
Cases of diphtheria and croup.....	157	152	156	176	110
Deaths .....	27	39	36	41	47

#### BACTERIOLOGICAL EXAMINATION FOR KLEBS-LOEFFLER BACILLUS OF DIPHTHERIA.

		KLEBS-LOEFFLER BACILLUS		IMPERFECT CULTURES.
		Present.	Absent.	No Diagnosis.
Primary cultures.....	282	99	169	14
Secondary cultures for release...	99			
Secondary cultures, primary negative.....	17	6	11	
Secondary cultures for release, no primary .....	4	1	3	
Whole No. of examinations		402		

## CLINICAL DIAGNOSIS IN PRIMARY CULTURES.

## KLEBS-LOEFFLER BACILLUS.

	Present.	Absent.
Diphtheria .....	65	20
Membraneous croup.....	2	
Laryngitis .....		3
Tonsillitis .....	4	63
Doubtful.....	4	21
Not stated.....	23	50
Septicaemia from gangrene of posteria nares	1	
Scarlitina with suspicious throat.....		1
Broncho-pneumonia .....		1
	<hr/> 99	<hr/> 159

This table shows that a few cases of apparent simple tonsillitis are likely to show the presence of the organism of diphtheria. The case of septicaemia which was fatal was that of a young child in which gangrene followed the removal of a foreign body from the nose. No membrane was discovered but a culture from the pus showed the presence of large numbers of the Klebs-Loeffler bacillus.

## PRESENCE OF A MEMBRANE IN PRIMARY CULTURES.

In the positive cultures a membrane was noted as present in 67 cases, absent in 16 cases and in 16 cases it was not mentioned. In the negative cultures a membrane was given as present in 85

cases, absent in 61 cases and in 23 cases it was not mentioned.

#### CULTURE FOR RELEASE AND THE QUARANTINE PERIOD.

During the year the department was able to follow out forty-eight cases of diphtheria until one negative culture was obtained. In some cases this required the taking of a number of cultures before the patient was found to be free from the organism. From the forty-eight cases the average length of quarantine necessary was found to be  $15\frac{1}{2}$  days. The longest case was one of 50 days. There was one each of 40 and 38 days, 3 cases of 25 days, while the rest varied from 6 to 18 days.

The adoption of the rule requiring one negative culture in all cases of diphtheria before release from quarantine is of very great importance in the effort to check the spread of the disease. It is known that the bacillus of diphtheria tends to linger in the throat of the patient for some time after his recovery from the acute attack and the disappearance of the local symptoms, the patient having by that time become immune to them. Though apparently inactive, such organisms are found by experiment to have full virulence and need only to be transferred to a fresh case, which is easily done if a patient is allowed to go about, to become active again and reproduce the disease.

In many cities of the state two consecutive negative cultures are required for release. It would be safer to do the same as soon as it seems advisable.

THE USE OF ANTITOXIN.

The office records show that during the year 247 bottles of antitoxin, supplied by the State Board of Health, were issued.

In 79 cases in which the Klebs-Loeffler bacillus was found by culture and in which antitoxin was used, 76 cases recovered and 3 died — 4 per cent.

In 59 cases in which the diagnosis of diphtheria was made, and in many of which no culture was taken, in which no antitoxin was used, 43 cases recovered and 16 died — 37 per cent.

TUBERCULOSIS. — EXAMINATION OF SPUTUM.

		TUBERCLE BACILLUS.		Secondary Examinations.
		Present.	Absent.	
Cases .....	106	43	63	6

TYPHOID FEVER.—WIDAL BLOOD SERUM REACTION.

		WIDAL REACTION.		Secondary Examinations.
		Present.	Absent.	
Cases .....	61	43	18	10

A number of cases examined before the tenth day gave a negative result, while a second examination after the tenth day gave a positive result.



## MALARIA.

Only four cases were sent in this year for examination for the presence of malaria. In two of these the Plasmodium Malariae was found.

A number of examinations for the presence of the Diplococcus Lanceolatus in pneumonia and for the presence of the gonococcus were also made.

THOMAS B. SMITH, M. D.,

*Bacteriologist.*

To the layman and citizen whose attention has scarcely been called to the significance of laboratory work in the investigation of disease, the above report will have little meaning. It, therefore, may be of value to explain briefly and simply the objects of our laboratory and how it serves one of the most vital interests of the city.

In 1894 Loeffler succeeded in showing that a certain germ known as the Klebs-Loeffler bacillus, was the cause of diphtheria, and was to be found in the inflamed patches in the throats of persons suffering from this disease. It was also shown that if a portion of the diphtheretic membrane was rubbed over the surface of solidified blood serum culture the diphtheria germs present in the membrane would multiply and produce a visible growth; an examination of the latter showing the presence of large numbers of characteristic germs which the skilled bacteriologist can at once recognize. Thus it becomes possible to make an accurate and positive diagnosis of diphtheria and to distinguish true diphtheria from other forms of inflammation.

The value of such examinations is incalculable. If the physician sends to the laboratory a cotton swab which has been rubbed over the membrane or inflamed portion of the throat, the laboratory may or may not prove the presence of true diphtheria. If the result is positive, the case is one of diphtheria

and is at once to be treated with antitoxin, and is isolated to prevent the infection of others.

If, on the other hand, the case is negative, the antitoxin treatment would be useless. Thus the physician knows exactly what to do and works with scientific certainty.

Again, it has been found that certain forms of mild sore throat which few physicians would easily recognize as diphtheria, are often associated with the presence of diphtheria germs. The true nature of such cases needs to be recognized, and the laboratory alone can settle the question.

Diphtheria germs very frequently remain in the throat for several weeks after recovery. It is evident, therefore, that patients should be kept in the house until said germs have disappeared. The laboratory alone can decide this matter. Thus the bacteriologist renders most efficient aid to the community in preventing the spread of this disease.

#### ANTITOXIN.

The method of preparation of diphtheria antitoxin may be of value to the general reader, and therefore a summary of the steps taken in its manufacture will be stated.

A race of diphtheria bacilli which has been found to yield a poison of great virulence in alkaline beef

broth, is grown for a week or ten days in this medium. The toxin is then separated and its virulence exactly determined. It is preserved in sterile receptacles for immediate or future use. The next step is the inoculation of a suitable animal with the toxin. Of all the animals the horse has been found to meet nearly every requirement. Such an animal, in a state of perfect health, receives an injection of 20 cubic centimeters of toxin, along with 10 or 15 of standard antitoxin, beneath the skin of the neck or fore-quarters, upon three separate occasions, at intervals of five days. After this it receives increasing doses of toxin, alone, at intervals of six to eight days, until at the end of two months it is able to stand with little discomfort doses of such strength that if given in the first stage would have quickly caused death. At this period the horse is bled to a small extent and its serum tested to ascertain if prospects are good for the production by the animal of a high grade of antitoxin. If satisfactory progress has been made, the injections are continued for another month, when, as a rule, the maximum degree of antitoxic power in the serum will have been attained.

The horse is now bled to the proper extent, the blood being received in a sterile jar and placed in an icebox. Here it coagulates and the serum separates from it. When the preparation of clot and

serum is complete, the latter is drawn off, taken to the laboratory and standardized. This being finished, an antiseptic fluid is added to preserve the serum from decomposition.

It is then bottled, labelled and is ready for use.

The decrease in the number of deaths from diphtheria during 1900 (the smallest number since 1891, notwithstanding an increase of population of 10,000) is a very gratifying exhibit. It is unquestionably due to the discovery and use of antitoxin, as from careful records kept the following statistics present evidence that cannot be successfully controverted. Of 79 cases found by culture and patch, 76 recovered and 3 died—4 per cent. This same record shows that 59 cases where antitoxin was not used yielded 16 deaths—37 per cent.

There are over one hundred physicians in the city of Lowell and the very great majority of them are conscientious and painstaking in their efforts to aid their patients towards recovery. This disease requires more than ordinary care and attention and the Health Department has in its employ a skilled and willing physician ready at any time to assist with examination, or in any way, any member of the profession. At any time of the day cultures and antitoxin can be had by application at the office of the Board of Health free of charge, and the depart-



ment would entertain the hope that the year 1901 would show even better results than this year, if it was not that the experience of years has brought us to the conclusion that there are some physicians in the city whose services when called for by any family are followed by certain death to the unfortunate victim.

To emphasize this proposition we give the following transcript from the records of this department:

One physician has had 32 cases of diphtheria and used cultures and antitoxin in every case. Result, no deaths.

Another physician has had 8 cases of diphtheria, taking no cultures and using no antitoxin. Result, 7 deaths.

We believe that at least four of the cases could have been saved if proper care and attention, with the use of antitoxin, had been given to the patients. Upon the first signs of diphtheria the patient should have the immediate benefit of antitoxin. We are aware that it entails upon the physician more work and time, perhaps, with a remote chance of any compensation among the poor.

It requires the taking of a culture if the membrane is not discernable, then a visit for antitoxin and return for the purpose of injection, and for two days, at least, double the care given for the ordinary disease. It is not just to expect a busy prac-



tioner to give the required time to a disease that is also dangerous possibly to his other patients, without compensation, and, therefore, we request that any physician who feels that he cannot give the attention that should be awarded a person sick with diphtheria, involving the use of antitoxin, to request such patient to send at once to the Health Office, and a quick response as possible will be given to the notification.

This method has in view the saving of the lives of many who otherwise would be allowed to wait until the poisonous toxin had so permeated the system that it could not be neutralized by the antidote. We do not wish to interfere in any way with the rights of the physician or his patient, but if we are right in the belief that the great mortality in the disease comes from neglect to apply the proper remedy, this department is responsible if no note of warning is sounded, that some precaution by the patient's parents or friends, if the attending physician, for any reason, declines or refuses to use every method known to science to save life from this treacherous disease.

Let us hope that when the use of antitoxin becomes as general as that of its twin benefactor, vaccinè, two of the most cruel diseases known to the human race will be so under the control of preventive efforts as to prolong the living of thousands to the scriptural three-score and ten.

## SCARLET FEVER.

	1900	1899	1898	1897	1896
Cases reported .....	80	173	309	90	76
Deaths . . . . .		9	6	2	1
Per cent. of fatal cases. ....		5	2	2	1

1900.	Reported Cases.	Deaths.
January.....	5	0
February.....	14	0
March .....	8	0
April .....	6	0
May .....	5	0
June .....	4	0
July.....	10	0
August .....	7	0
September .....	5	0
October.....	5	0
November.....	6	0
December .....	5	0
	—	—
	80	0

## MEASLES.

1900.	Reported Cases.	Deaths.
January.....	21	0
February .....	10	0
March .....	7	0
April .....	9	0
May .....	23	0
June.....	24	0
July .....	17	0
August .....	0	1
September .....	1	0
October .....	0	0

November.....	0	0
December.....	2	0
	<hr/>	<hr/>
	114	1

## TYPHOID FEVER.

1900.	Reported Cases.	Deaths.
January.....	3	1
February.....	4	1
March.....	6	3
April.....	3	2
May.....	0	0
June.....	0	1
July.....	0	1
August.....	6	1
September.....	20	1
October.....	23	3
November.....	15	2
December.....	5	1
	<hr/>	<hr/>
	85	17
Total 1900.....	85	17
Total 1899.....	57	17
Total 1898.....	119	24
Total 1897.....	105	18
Total 1896.....	178	36
Total 1895.....	172	33
Total 1894.....	282	50
Total 1893.....	160	53
Total 1892.....	373	75
Total 1891.....	293	77
Total 1890.....	454	123

## PLACES OF DEATH.

Ward 1.....	0
Ward 2.....	1
Ward 3.....	2
Ward 4.....	0
Ward 5.....	1
Ward 6.....	0
Ward 7.....	1
Ward 8.....	1
Ward 9.....	0
Almshouse .....	0
St. John's Hospital. ....	5
Lowell Hospital.....	5
Lowell General Hospital.....	1
	—
	17
Males.....	13
Females.....	4
	—
	17
Oldest .....	52 years.
Youngest .....	17 years.

While the mortality from typhoid fever is very low, the number of reported cases is unexpectedly large, when we know that the water supply of the city was entirely free from the introduction, at any time, of Merrimack River water. Quite a number of the reported cases were brought into the city from places where it had been contracted during vacation periods. But there remains a large number

that we believe were attacked with the disease by carelessly drinking canal water in the large corporations of the city, where it is always within reach and can be obtained quicker than the driven well supply, which is not used at all in some of the corporations, although piped across the canals. It was suggested by a mill agent that signs over all canal faucets should be placed marked "Poison," but it would not prevent the use of the water, and nothing less than the introduction of city driven well water will prevent the present annual number of cases of typhoid fever. That avenue closed, the source of the cases reported could almost perfectly be determined, and we suggest that the mill authorities take such steps as will make it difficult for the operatives to obtain, for drinking purposes, the raw product of the Merrimack River from the canals.

#### SMALL - POX.

SMALL - POX CASES AT HOSPITAL MAY 21ST TO AUG. 25TH, 1900.

#### *1st Case.*

"The Board of Health is hereby notified that Roselba Robillard, age 7 years, residing at 184 Perkins Street, is ill with varioloid. Time of first visit, 12 M. Monday.

DR. L. V. ROCHETTE."

This family came to Lowell about three or four years ago and returned to Canada, coming back here in September, 1899. Their home is Joilette, P. Q. Oliver Robillard, wife and three children. Removed 7 P. M., Monday, May 21st. Roselba, 7 years old, varioloid.

DR. H. J. SMITH.

DR. E. G. LIVINGSTON.

Child attended St. Joseph's Parochial School; had been vaccinated. This child recovered and was discharged from hospital Monday, June 4th.

*2nd Case.*

Pharaine Brais, 7 years old. O'Flahavan Block, Moody Street.

DR. ROY.

Wednesday, May 23d. "Small-pox."

DR. LIVINGSTON,

DR. LAVIGNE.

Father, mother, 3 sons, 6 daughters; all taken to the hospital. Child attended St. Joseph's Parochial School. This entire family has been in Massachusetts not over one year. Two oldest boys (suspects) discharged June 9th. Father and four



children (suspects) discharged Friday, June 22nd.  
Sick children discharged Saturday, June 23rd.  
Mother and infant discharged Tuesday, June 26th.  
The father and mother gave the sick children care and attention, besides looking after the remaining seven suspects. The entire family was discharged June 23rd.

*5th Case.*

Alma Brais developed varioloid at the hospital June 1st. Sixteen years old.

*3rd and 4th Cases.*

Mrs. Melvina Lariviere and child, living at 77 Cheever Street. Varioloid.

DR. FIELD,

DR. LIVINGSTON,

DR. LAVIGNE.

Oldest Monbleau girl married to Lariyiere, found at the house of the Monbleau family, Fletcher Block. Father, mother and child sent to the hospital.

The Monbleau family came to Lowell fifteen years ago and has lived here ever since. The son-in-law, Lariviere, has been in the State five or six years, part of the time living at Brookside; has

lived in Lowell since his marriage. Discharged from hospital June 8th.

*6th Case.*

Friday, June 8th, 1900.

Lecadie Lezotte, 10 Gore Street (Tremont and Suffolk tenement block), reported by Dr. Patenaude at 11 A. M., after call made at 10.30 A. M.

Dr. Lavigne and Dr. Livingston were sent to examine the patient, and reported that, in their opinion, it was small-pox, but that it had not arrived at the stage where a positive diagnosis could be made, but that in 24 hours the disease could be safely stated. As she is sick in a large boarding-house it was thought prudent to remove her to the small-pox hospital, especially as it was found that she had been exposed by contact with the Monbleau family in Fletcher Block.

She has two children, Adlaid, six years, and Rosanna, four years old, both sent with the mother to the hospital. She has worked until last Saturday (June 2nd) in mill No. 1, Merrimack Manufacturing Company. Mother and children have never been vaccinated. Removed from house to hospital, 4 P. M., June 8th, 1900. Discharged from hospital Tuesday, June 19th.

*7th and 8th Cases.*

Sunday, June 10th, 1900.

Frank Hebert, Fletcher Block, Moody Street, janitor of both blocks, in the employ of D. J. Murphy, in contact with the Monbleau family, reported as suspicious patient by Dr. Rochette, Sunday, June 10th, 11.40 A. M. Sent Dr. Livingston with Dr. Rochette to the house and they reported the father in a somewhat advanced stage of varioloid, with the mother just showing a slight eruption. The mother is just recovering from pneumonia, with a present pulse of 100, and she is also in an advanced stage of pregnancy. They have eight children: Rosa Hebert, 20; Emiea, 19; Lizzie, 17; Cora, 16; Mary, 11; Joseph, 10; Clara, 8, and Maria Louise, 5.

The father was induced to go to the small-pox hospital, but, owing to the condition of the mother, and in deference to the opinion of both physicians that it would endanger her life by removal, arrangements were made to keep three employees at the house all the time in reliefs of eight hours each, with instructions to allow no one to enter or leave the house, and the children will be provided with sufficient food and care by this department until, in our opinion, all danger of contagion is passed.

*9th Case.*

June 12th, 1900.

Alphonse Noel; age, 27. Reporting physician, Dr. Mignault. First visited patient Sunday, June 10th. Eruption did not show until today (June 12th), when physician became suspicious and reported case at office of Board of Health.

Dr. Livingston went with Inspector Bates to the house and returned the following report:

“Taken ill Saturday, June 9th; headache and nausea. Sunday bodily pain, headache, vomiting and loss of appetite; symptoms continued through Monday, until evening, when the feverish conditions passed away and the pains subsided. This morning eruption was noticed on forehead, face, hands and chest; free from pain and feeling better. French, but speaks English; worked up to Saturday, June 9th, in yard of Lowell Machine Shop. Moved from 406 Moody Street, Saturday, June 2nd, to Tremont Corporation. Had never been vaccinated. Diagnosis, discrete small-pox. Physicians, Drs. Mignault and Livingston. He and his wife were taken to the small-pox hospital this afternoon at 3. Have been in Lowell 16 months. Have not been with the Robillard, Brais, Monbleau, Rivers, Lezotte or Hebert families. Took meals at 28 Tremont Corporation.”

Wife worked in Suffolk Mill and was vaccinated three years ago (27 years old). Discharged June 29th.

Two of the children worked in the Lawrence and one in the Tremont and Suffolk. The father has never been vaccinated, but all the children have been, recently. The family has been in Lowell about five years.

Public Statutes, Chap. 80, Sec. 41 — “*If the infected person cannot be removed without danger to his health, the board shall make provision for him, as directed in the preceding section, in the house in which he may be; and may cause the persons in the neighborhood to be removed, and take such other measures as it judges necessary for the safety of the inhabitants.*”

Sect. 75 — “When a disease dangerous to the public health breaks out in a town, the board shall immediately provide such hospital or place of reception for the sick and infected as is judged best for their accommodation and the safety of the inhabitants, which shall be subject to the regulations of the Board; and the Board may cause any sick and infected person to be removed thereto, *unless his condition will not admit of his removal without danger to his health*, in which case the house or place where he remains shall be considered as a hospital, and all persons residing in or in any way



concerned within the same shall be subject to the regulations of the board as before provided."

Hebert was discharged Thursday, June 21st. Wife at home. Lifted quarantine June 21st.

We find reported June 2nd, on our Contagious Disease Record Book, the name of Antoinette Murien, 10 months old, sick with measles, at 406 Moody Street. The suspicion presenting itself that it might have been varioloid, the house was visited at once. No signs of measles or varioloid were present on the children. They were both vaccinated and the house fumigated and cleansed with corrosive sublimate.

#### *10th Case.*

James Parise: age, 30; 1 Fletcher Block, second story. Same tenement as the Monbleau family live in. The rooms on the next floor above have been thoroughly fumigated.

This case was reported Sunday, June 17th, at 10 P. M., and reached the office Monday morning, by Dr. Rochette. "Suspicious illness, probably varioloid." Examined Monday, 11 A. M., by Dr. Livingston and pronounced varioloid. Removed to small-pox hospital 1.30 P. M. Works for Locks and Canals Company; has not worked for them since Tuesday afternoon, June 12th, when he stayed at home because of sore throat and headache. Discharged June 29th.



*11th Case.*

July 10th. 1900.

Annie Leggett, aged 44. 61 Massachusetts Corporation. Single, born in Ireland. Been here 9 years. Weaver, worked in Boott Corporation; last in Massachusetts Corporation. Taken sick June 30th. Dr. T. B. Smith. One brother in Lowell. Varioloid: Dr. E. G. Livingston. Discharged, July 24th.

*12th Case.*

July 14th. 1900.

Michelle Soucy, aged 30. French Canadian. Boards at 77 Cheever Street, Room 16. (The two Lariviere cases came from this block.) Has worked in Tremont and Suffolk yard but evaded vaccination last month; has never been vaccinated. Has worked constantly for 8 months. Has lived in Lowell one year, and has lived where he is now for 10 months. Married. Wife and child went to Canada 2 weeks ago. Taken sick Tuesday, July 10th, with pains in head, back and legs; continued pains until Thursday afternoon when eruption appeared and he has since felt better. Since Thursday has only left the house to call at Dr. Mignault's office. Lanced or broken every eruption as fast as it came. Taken to small-pox hospital 3 P. M., Saturday, July 14th. Dr. E. G. Livingston. Discharged July 26th.

*13th Case.*

July 25th, 1900.

George Couillard, aged 6, 199 Hall Street. Reported by Dr. Patenaude. Drs. Lavigne, Livingston and H. J. Smith. Taken sick Sunday night (July 22d) with headache, fever, pains in legs and abdomen and has grown worse every day. Had not been vaccinated. Died July 27th. Pneumonia. Family moved from 94 Tucker Street, June 20th; another boy in South Lowell; think he has had small-pox.

*14th Case.*

Clara Coulliard, age 3, 199 Hall Street. Drs. Lavigne and Livingston. Taken sick Sunday morning (July 22d.) with symptoms similar to brother's and Tuesday the eruption was visible on face and hands. Had not been vaccinated. Discharged August 8th.

*15th Case.*

Fred Coulliard, age 4, 199 Hall Street. Drs. Lavigne and Livingston. Taken sick Wednesday morning, July 25th. Had not been vaccinated. Discharged August 8th.

*16th Case.*

July 26th, 1900.

Baby Couillard, age 13 months. Drs. Lavigne and Livingston. Discharged August 8th.

*17th Case.*

July 26th, 1900.

Sadie Leggett, age 4 years, 61 Hancock Street, Massachusetts Corporation. Dr. Livingston. Discharged August 7th.

*18th Case.*

July 26th, 1900.

James Leggett, age 6 years. Discharged August 7th.

*19th Case.*

July 26th, 1900.

Alice Leggett, age 2 years. Discharged August 7th.

These children contracted the disease from Mary A. Leggett, who took care of them in their mother's absence.

*20th Case.*

August 1st, 1900.

Alfred Branconier, age 4 years, 188 Perkins Street. Dr. Livingston. Confluent small-pox. Discharged August 17th.

*21st Case.*

David Branconier, Jr., age 2 years, 188 Perkins Street. Dr. Livingston. Discrete small-pox. Discharged August 22d.

*22nd and 23rd Cases.*

August 12th, 1900.

Joseph Deguay; age, 18; 29 James Street.  
Paul Deguay; 29 James Street.

A visit to the house Sunday, August 12th, at 8.30 A. M., confirmed the opinion of the physician that both were far advanced in the eruptive stage of varioloid. They were both taken at once to the small-pox hospital.

Andrew Deguay, the father, was found, by an inspector, at work for the Locks and Canals and brought to the house, and this afternoon taken to the hospital. A married daughter, her husband,

Phillip Castilloux and child, 10 months old, live with the Deguay family. Owing to her being sick in bed and in deference to the opinion of the physician that it would be dangerous to remove her to the hospital; after the house had been funigated, and all its inmates vaccinated, the remaining members were quarantined in the house, under the care and control of the Health Department, with instructions to furnish all the necessaries until such time as it is deemed wise to remove the restrictions.

The persons remaining in the house are Mrs. Deguay and child, Phillip Castilloux, wife and child.

Deguay has one son who lives in Fletcher block, same tenement from which this Department took the Monbleau family to the small-pox hospital, and he, his wife and child were quarantined by this Department June 18th, after the removal of Mrs. Parise and two children to the hospital.

Patients discharged from hospital August 25th, and quarantine lifted at same time on house.

The probable origin of these last cases was the walking and visiting of Xavier Frappier, Jr., who came from Canada with his parents between two and three months ago. The boy is 15 years old and worked three weeks in the Tremont and Suffolk Mills. While working in this mill he was taken sick. At first they (his folks) did not know what the trouble was and gave him whiskey. After a time, however, when the eruption broke out,



they bought some carbolic soap and he has since been washing himself with it. He was sick eight days. It is now three weeks since he left his bed (August 2nd). He stayed one week in Lowell and went everywhere. He then went to Tewksbury and has been there the last two weeks. His face, hands and legs are pitted and he must have passed through quite an attack of small-pox.

May 26th, 1900.

Preliminary Report on Monbleau Family, Fletcher Block, rear 368 Moody Street. The father works in No. 5 Mill, Lawrence Manufacturing Co.; never vaccinated; small-pox years ago; no recent illness. The mother does her own housework; small-pox years ago; no vaccination; no recent illness. Valentine, aged 16, works for Overseer Walker on the Lawrence. Said to have had small-pox in Canada, when three months old. A few old scars are now visible. Before coming down with her recent illness worked next to her chum, Leontine Dery of Merrimack Street, who had the same thing and worked all the time. Valentine was the first of the family to be taken sick, leaving her work five weeks ago yesterday (April 20th). She first had sore throat, headache and aching all over. These symptoms disappeared when the eruption came out three days later. This eruption apparently broke



out all over her body at once. It was at first red like measles; in two days it began to grow into a watery pimple, and in three or four days changed to yellow and dark and crusted over. It was never watery spots at first, but always red and hard. Dr. Benoit made one visit four weeks ago (April 28th). Valentine was up and about, all the time. Went to work three weeks ago. Never vaccinated until two days ago.

Emma, 9 years old, never vaccinated. An attendant at St. Joseph's Parochial School. Claims that she has not been at school for five weeks, having left then for an attack of sore throat to which she is often subject. Says she does not know the Brais girl and was not in her class. This ordinary sore throat lasted only two days.

Then a week after Valentine began to be ill, or two weeks after, according to another statement, Emma was taken sick with a sore throat followed in three or four days by an eruption similar to Valentine's, but first appearing on the face. Although Emma and her mother both state that she had been out of school five weeks, the school record shows that she has been absent less than three weeks, her last appearance being on May 9th.

Ralphie, aged 4, never vaccinated, was taken sick about the same time as Emma. Had a fever, but no sore throat. Was running around all the time, so his mother did not notice when he first broke out.

Henri, aged 6, not vaccinated. Has not been sick. Had on him a few spots similar to those on his sisters and brothers.

Baby boarding there since February. Never vaccinated. Not sick.

The eruption is similar on all three children. It appears all over the body, even on the hands, and is, perhaps, more abundant on the forearms than elsewhere. There are a few crusts or scales present, the spots for the most part appearing as if scales had once been there and fallen off. The spots are dark red, averaging one-fourth inch in diameter, and most of them with a black point in the centre. Some of the spots are level with the surface, but most of them are more elevated than is usually common.

#### CONCLUSIONS.

The children have had an eruptive contagious disease, either varioloid or chicken-pox. Valentine probably got it in the mill and within a fortnight gave it to Emma and Ralphie. The history, symptoms and appearance of what is left of the eruption all point to varioloid. The only puzzle is why un-vaccinated children should not have had a more severe form of the disease.

JAMES B. FIELD, M. D.,

A. W. LAVIGNE,

E. G. LIVINGSTON.

The baby mentioned in the above report is the child of a married sister. May 30th the mother was found in the Monbleau family, and both mother and baby were just developing varioloid. This fact clinched the theory that the outbreak started in this family, and that had the attending physician reported to the Health Office a suspicious case when he visited Emma on April 28th, seven days after her first symptoms, the department would have been saved much work and anxiety, and the city of Lowell some thousands of dollars.

#### SUSPECTS FROM EXPOSURE TAKEN TO THE HOSPITAL.

Oliver Robillard, wife and two children.....	4	persons
Mr. and Mrs. Brais and seven children ....	9	"
Mr. Lariviere.....	1	"
Lezotte children .....	2	"
Mrs. Noel.....	1	"
Mrs. Parise and two children.....	3	"
	20	"

July 25th.	Joseph Coulliard.	Age 30....	Discharged	Aug. 8th
" "	Julia "	" 25....	"	" "
" 26th.	Xavier Frappier.	" 60....	"	" 5th.
" "	Mrs. "	" 58....	"	" "
" "	John Leggett.....		"	" 4th
" "	Mrs. " .....		"	" 7th
Aug. 1st.	David Branconier.....		"	" 17th.
" "	Aldoric " .....		"	" 22nd.
" "	John Poulin.....		"	" 10th.

Aug.	1st.	Mrs. Poulin...	Discharged	Aug.	22nd
"	"	Andrew Deguay.....	"	"	"
"	"	Mrs. " .....	"	"	25th
"	"	Child " .....	"	"	22nd
"	16th.	Phillippe Castilloux.....	"	"	21st
"	"	Mrs. " .....	"	"	"
"	"	Child " .....	"	"	"

SUSPECTS QUARANTINED AT HOMES AND SUPPLIED WITH  
PROVISIONS BY HEALTH DEPARTMENT.

Monbleau family (father, mother, two boys, two girls)

Fletcher Blk.—from May 30th to June 8th....6 persons

Hebert family (children)—from June 10th to June 18th, 8 "

Parise " (boarders)— " " 18th " " 29th, 6 "

COST OF SMALL-POX FROM MAY 21ST TO JUNE 30th, 1900.

Amount paid from "Labor" appropriation of the  
Health Department.

May	26th.	Hospital.....	\$18 00
"	"	" .....	18 00
"	"	Inspector .....	24 50
June	2nd.	Hospital .....	21 00
"	"	" .....	21 00
"	"	Inspector .....	24 50
"	9th.	Hospital .....	21 00
"	"	" .....	21 00
"	"	Inspector .....	24 50
"	16th.	Hospital .....	21 00
"	"	" .....	21 00
"	"	Inspector .....	24 50

June 16th.	Quarantine.....	\$14 00
" "	" .....	14 00
" "	" .....	12 00
" 23rd.	Hospital .....	21 00
" "	" .....	21 00
" "	Inspector .....	24 50
" "	Quarantine.....	14 00
" "	" .....	14 00
" "	" .....	14 00
" 30th.	Fumigation .....	15 00
" "	Hospital .....	21 00
" "	" .....	21 00
" "	Inspector .....	24 50
" "	Quarantine.....	14 00
" "	" .....	14 00
" "	" .....	14 00
		<hr/>
		\$532 00

COST OF SMALL-POX FROM JULY 10TH TO AUGUST 22ND, 1900.

Amounts paid from "Labor" appropriation of the Health Department.

July 14th.	Fumigation .....	\$15 00
" "	Hospital .....	15 00
" "	Inspector .....	24 50
" "	Hospital .....	10 00
" 21st.	Fumigation .....	15 00
" "	Hospital .....	21 00
" "	" .....	14 00
" "	Inspector .....	24 50
" 28th.	Fumigation .....	15 00
" "	Hospital .....	21 00

July	28th.	Hospital .....	\$14 00
"	"	Inspector .....	24 50
Aug.	4th.	Fumigation .....	15 00
"	"	Hospital .....	21 00
"	"	" .....	14 00
"	"	Inspector .....	24 50
"	11th.	Fumigation .....	15 00
"	"	Hospital .....	21 00
"	"	" .....	12 00
"	"	Inspector .....	24 50
"	18th.	Fumigation .....	15 00
"	"	Hospital .....	12 00
"	"	" .....	21 00
"	"	Inspector .....	24 50
"	25th.	Fumigation .....	15 00
"	"	Hospital.....	21 00
"	"	" .....	8 00
"	"	Inspector .....	24 50
Sept.	1st.	Hospital .....	9 00
"	"	Fumigation .....	15 00
Aug.	18th.	Quarantine .....	31 25
			<hr/>
			\$556 75.

## BILLS, SMALL-POX.

Alexander, H. M. & Co., vaccine.....	\$180 00
Almshouse, Pauper Dept., board of inmates of hospital, May and June.....	258 50
Adams & Co., bedding destroyed.....	21 00
Butler, F. H. & Co., vaccine. ....	90
Bartlett & Dow, hardware.....	85
Brais, Mr. and Mrs., services at hospital.....	20 00



Bates, F. A., board of inmates of hospital, June and July and sundries.....	\$215 31
Blazon, Albert, assisting vaccinating physician.....	28 00
Brunelle, Pierre, M. D., vaccination.....	102 80
Brault, Eli, policeman.....	4 00
Coburn, C. B. & Co., sulphur, etc.....	54 31
Caisse, Geo., M. D., vaccination.....	66 40
Carter, C. E., plasters, etc.....	35 28
Choquette, Victor, assisting vaccinating physician...	32 00
Donovan, D. J., provisions.....	3 17
Engineering Dept., plans of Moody Block.....	5 00
Ellingwood & Co., vaccine, medicine, etc.....	286 98
Farrell & Conaton, piping for gas stove.....	27 44
Field, J. B., M. D., examining suspicious case.....	25 00
Fairbanks, J. L., fumigating paper .....	2 52
Fay, Thos. F., cleaning vault.....	6 00
Hutchins, B. & M. E., typewriting .....	4 80
Halpin, A. J., M. D., vaccination.....	128 00
Hurtubise, L. A., M. D., " .....	66 40
Hebert, P., furniture and bedding destroyed.....	12 00
Johnson, W. A., M. D., examination of suspicious cases, etc.....	87 00
Knapp, H. H., sundries for hospital.....	93 50
Lowell Gas Co., gas stove.....	16 00
Livingston, E. G., M. D., services at hospital, examination of suspects, vaccination, etc.....	977 50
Lavigne, A. W., M. D., vaccination, examination of suspects.....	317 00
Lamoureaux, J. E., M. D., vaccination .....	70 40
Lowell Pharmacy, medicine.....	11 30
Monbleau, Mrs., clothing and bedding destroyed....	7 00
Mack, W. A., sundries.....	2 25
McAvinnue, Frank, M. D., vaccination.....	191 00
McIntosh, E. R., M. D., vaccination.....	1 00

Merrimack Clothing Co., clothing destroyed.....	2 58
Mulford, H. K., vaccine and regenerator.....	31 00
N. E. Tel. & Tel. Co., telephone.....	12 03
O'Sullivan Bros., boots and shoes.....	9 45
O'Flahaven, M., rent .....	12 00
Nelson, G. A., photographs of Fletcher Block .....	1 50
Pollard, A. G., & Co., supplies for hospital.....	47 11
Robillard, Mrs., clothing and bedding destroyed....	10 00
Ranlett, O. B., groceries .....	13 84
Sparks, J. H., hack.....	3 00
Smith, T. B., M. D., examination of suspect.....	1 00
Smith, H. J., M. D., examination of suspects.....	50 00
Stanley & Co., wood.....	4 00
Savea Mfg. Co., disinfectant.....	6 25
St. John's Hospital, bedding destroyed.....	30 00
St. Patrick's Cemetery, opening grave .....	3 00
Tarte, J. N., provisions .....	40 44
Vallerand, Edward, assisting vaccinating physician...	28 00
Wotton, J. N., milk.....	1 75
Western Union, message .....	41
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\$3,667 97	

## TOTAL SUMMARY—MAY TO SEPTEMBER 1ST.

Medical treatment.....	\$982 50
Expenses at hospital .....	811 98
Investigation and examination of suspects.....	222 80
Quarantine .....	99 22
Fumigation.....	59 66
Vaccination... ..	1,383 90
Bedding and clothing destroyed.....	104 91
Opening grave.....	3 00
	<hr/>
	\$3,667 97
Labor (Pay Roll July and August).....	556 75
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	\$4,224 72
Labor (Pay Roll May and June).....	532 00
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Total cost.....	\$4,756 72

Total number of small-pox patients.....	23
“ “ “ suspects cared for at hospital.....	36
“ “ “ “ “ “ homes .....	20
	<hr/>
“ “ “ persons cared for by Health Dept.	79

Bill rendered State July 6th (10 cases and 50 suspects)	\$1,793 26
“ “ “ Sept. 5th (9 “ “ 14 “ )	1,013 31
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Total amount due from State.....	\$2,806 57

## DEATHS FROM SMALL-POX SINCE 1837.

1837.....	7	1860.....	1
1840.....	1	1861.....	1
1841.....	2	1862.....	1
1846.....	4	1864.....	2
1847.....	1	1865.....	3
1848.....	17	1866.....	18
1849.....	41	1870.....	3
1850.....	4	1871.....	178
1852.....	1	1872.....	1
1853.....	2	1873.....	1
1854.....	18	1877.....	5
1855.....	20	1880.....	1
1856.....	2	1894.....	3
1859.....	12	1899.....	1

## COST OF SMALL-POX — 1871-1900.

	Cases Reported.	Deaths.	Cost.
1871.....		178	\$22,794 27
1877.....		5	6,246 88
1885.....	4	0	1,603 54
1894.....	8	3	7,850 86
1899.....	2	2	1,038 52
1900.....	23	0	4,756 72

## VACCINATION.

The first extension of vaccination outside of the usual daily work in that line at the office of the Board of Health, was an order issued by vote of the Board, May 23rd, resulting in 850 vaccinations at St. Joseph's Parochial School, performed by Drs. Hurtubise, Lamoreux and Caisse.

May 26th, by vote of the Board, the following letter was sent to the Superintendent of Schools:

May 26th, 1900.

A. K. WHITCOMB, Supt. Public Schools, Lowell.

DEAR SIR: It having been brought to the attention of the Board of Health, as the result of an examination Thursday, May 24th, by Dr. W. A. Johnson of the pupils of the Cheever and Cabot Street schools, that quite a number of children have been allowed to connect themselves with the public schools in violation of the provisions of Section 9 of Chapter 47 of the Public Statutes excluding children from public schools, it has been voted (May 24th) by the Board of Health, that immediate steps should be taken to vaccinate all the scholars now attending the schools, and in future to insist that no children are allowed entrance to any primary school without a certificate signed by the Board of Health or a regular practicing physician, that they have passed a successful vaccination.

It must be that the conditions found at the two schools mentioned are exceptional, as in the large Grammar School opposite the City Hall but two or three scholars have been found unvaccinated. As this department vaccinated over 1200 children last year, furnishing vaccine matter and the services of a physician, the Board is surprised that the results of an examination in two public schools, that come under the provisions of the statute, are more serious than the situation so far found in the parochial school examined, which *do not*, as clearly, come within the statute.

Yours respectfully,

BOARD OF HEALTH,

per H. H. Knapp, Agt."

May 31st the following letter was sent to the Agents of the manufacturing companies in Lowell:

May 31st, 1900.

DEAR SIR:

During the last year four cases of small-pox have been found in Lowell, all, at the present writing, at the hospital under the control of the Board of Health. As the cases have been found in families employed in the different mills of the city, compulsory vaccination has been resorted to in the rooms of the Lawrence, Tremont and Suffolk, Hamilton and Boott, where any of the cases reported have worked.



The Board hopes and believes that the source of the present contagion has been found, and, if so, the area and results are under good control, but if other cases arise that seem to point towards new territory, a general order will be issued that will embrace *all the employees* of every mill in Lowell that have not been vaccinated since 1894.

In 1871, 178 deaths from small-pox resulted from the most serious epidemic in Lowell's history. No record can be found of the number of cases reported, but applying the usual rate of mortality that followed in the wake of small-pox twenty-five years ago, there were probably over a thousand persons who were attacked by the scourge.

At its culmination it was believed that every one that could be reached had undergone the operation of vaccination. Whether or not this was the reason, but seven deaths from the disease are recorded for the next twenty-three years, to 1894. Eight cases in 1894 led to quite a general vaccination of, say 10,000 in the city. Owing to quite stringent school laws in Massachusetts, it is thought that but a small proportion of natives remain unvaccinated in Lowell.

The time that vaccination aborts small-pox is in some doubt, but generally it is accepted as from five to seven years. The Board feels that, for the present, vaccination should be made compulsory in rooms of the different manufacturing companies where

one person has been found suffering from varioloid or small-pox; and have so voted as a matter of record May 29th, 1900. The extension of the number required under the order will be more satisfactory than an interpretation that will curtail and limit those that come, in your judgment, under its provisions.

The authority for general vaccination is found in the following statutes, Acts of 1894, Chap. 515, Sects. 3 and 5:

“The Board of Health in any city or town shall require and enforce vaccination and re-vaccination of all the inhabitants thereof whenever in the opinion of said Board the public health or safety requires such action. Every person over twenty-one years of age, not under guardianship, who neglects to comply with such requirement, shall forfeit the sum of five dollars.

“Incorporated manufacturing companies, superintendents of almshouses, State reform schools, industrial schools, lunatic hospitals and other places where the poor or sick are received, masters of houses of correction, jailers, keepers of prisons, the warden of the State prison, and superintendents or officers of all other institutions supported or aided by the State, shall, at the expense of their respective establishments or institutions, cause all the inmates thereof to be vaccinated or re-vaccinated whenever

in the opinion of the Board of Health in the city or town in which such establishments or institutions are situated, the health of the inmates thereof or the public safety require such action."

The Board takes this opportunity to thank the agents of the Hamilton, Lawrence, Tremont and Suffolk, and Boott Mills for the willingness and celerity displayed in conforming to the wishes of the Board, so far requested, and believes that all the mills had better err on the side of safety than regret because of delay.

Yours respectfully,

BOARD OF HEALTH,

Per H. H. Knapp, Agt."

July 26th, it was voted by the Board to plot Little Canada into four districts under the charge of physicians for compulsory vaccinations, and Drs. Halpin, McAvinnue, Brunelle and Lavigne were selected for the purpose named.

The number of vaccinations in Lowell during 1900 was :—

Regular daily work at City Hall .....	3,278
St. Joseph's Parochial Schools .....	850
Manufacturing Corporations.....	2,530
House to house, Little Canada.....	2,077
	<hr/>
	8,735

The right to compel vaccinations by Boards of Health is now conceded and obeyed by every open and unprejudiced person, and only two persons out of eight thousand vaccinations were brought before the Police Court for refusal.

Not a case of small-pox was recorded where the person received vaccination within a reasonable time after exposure. During the year ended June 30th, 1900, 14,998 cases of small-pox with 731 deaths in 44 states of the United States were reported, the death rate being less than 5%.

Universal vaccination would totally eradicate the disease, thereby proving that the discovery of Jenner was one of the most beneficent discoveries ever conferred upon mankind.

In the seventeenth century small-pox was not only one of the most loathsome, but also one of the most prevalent and fatal diseases in Europe. Macauley thus vividly portrays the havoc of small-pox in England in the seventeenth century.

“That disease over which science has since achieved a succession of glorious and beneficent victories, was then the most terrible of all the ministers of death.

The havoc of the plague had been far more rapid; but the plague had visited our shores only once or twice within living memory; small-pox was always present, filling the church yards with corpses, tormenting with constant fear all whom it had not



yet stricken, leaving on those whose lives it spared the hideous traces of its power, turning the babe into a changeling at which the mother shuddered, and making the eyes and cheeks of the betrothed maiden objects of horror to her lover. During the century previous to the discovery of vaccination, small-pox is calculated to have destroyed forty-five millions of people in Europe."

#### SMALL-POX HOSPITAL.

At one time this building was taxed to its full capacity to accommodate the patients and suspects under the care of the department, and an effort to increase the facilities for proper treatment of those who might be detained, led to the introduction by President Walker of the Council of the following resolution :

*Joint Order for a Committee to Confer With the Board of Health.*

"Ordered, if the Board of Aldermen concur, that a committee of three Councilmen to be appointed by the President of the City Council, and two Aldermen to be appointed by the Mayor, be appointed to confer with the Board of Health in considering the advisability of procuring a suitable lot of land in the outskirts of the city for the purpose of erecting thereon six cottage houses to

be used by the Board of Health for the detention of persons and families that have been exposed to small-pox or other contagious diseases, that in the judgment of the Board of Health may require such a place."

June 5th, 1900. Councilmen Hill, Mullaney and Walker joined by the appointment of the Mayor, of Aldermen Howe and Badger.

Meetings of consultation were held between the committee and the Board of Health June 13th and 14th, followed by personal examinations of the hospital and grounds, and it was decided to use the present location rather than to select other grounds owned by the city for the purpose named in the resolutions.

It was then voted by the City Council Committee to await a more favorable time for such recommendations as might come from the Board of Health, after the suppression of the epidemic. For the last two months of this year the matter has been given much time, thought and examination, and at one time a report was prepared asking the committee to present to the City Council a resolution embodying a request for an appropriation of five thousand dollars for the purpose of enlarging the present building so as to provide room for detention purposes, and the introduction of a heating plant as the most needed improvement, as it is.



impossible to maintain the even temperature that is so essential to the proper care of patients suffering from small-pox in any of its stages, by any number of coal or wood stoves. It was not sent to the City Council as all the appropriations of the department were at the low water mark, and for the present a sum of money was diverted from the "Sundries" of the yard sufficient to clapboard and paint the entire outside of the building and build a new portico to the front entrance, this work constituting the first repairs made upon the building for twenty years.

With the exception of Annie Leggett, taken from the Massachusetts Corporation to St. John's Hospital and pronounced sick with small-pox, after having been an inmate for twenty-four hours, every one of the remaining cases was the direct or indirect result from the Monbleau family at Fletcher's Block, Moody Street.

As that entire family had run the course of varioloid without the knowledge of the Health Department, its exposures had to be met, and that it did not get away from control is a source of great satisfaction to us, when the knowledge that a large number of persons were infected before any quarantine could be exercised.

After the first two cases, the Board held almost daily meetings, and they attribute the good results to the reason that the entire charge and direction

of the epidemic was placed in the hands of the Agent, subject to the advice and counsel of the Board. Dr. E. G. Livingston was given the charge of the small-pox hospital and discharged the duties of the position faithfully and efficiently, and with marked kindness and attention to the patients at all hours of the day and night.

Small-pox patients confined in a hospital are subjected to regulations for the protection of the outside community, which are very irksome, and the attending physician must discharge his official duties satisfactorily to win from them the unanimous expression of gratitude that was awarded to Dr. Livingston.

The Board feels a pardonable pride that all the work consequent upon the coming of the pestilence to the city was done by the regular working force of the department, without any aid or help from nurses, attendants or workmen, and when the last case was disposed of the force returned at once to the regular routine work of the department.

## DEATHS FROM CHOLERA INFANTUM

	1900	1899	1898	1897	1896	1895
January.....	0	0	0	1	0	1
February.....	0	0	1	4	1	3
March.....	0	0	0	0	0	3
Total first quarter.....	— 0 —	— 0 —	— 1 —	— 5 —	— 1 —	— 7
April.....	0	1	0	1	0	0
May.....	0	1	0	1	3	3
June.....	5	12	11	4	25	11
Total second quarter....	— 5 —	— 14 —	— 11 —	— 6 —	— 28 —	— 14
July.....	66	77	69	53	80	75
August.....	28	38	65	61	73	66
September.....	20	39	29	34	32	40
Total third quarter.....	— 114 —	— 154 —	— 163 —	— 148 —	— 185 —	— 181
October.....	10	7	8	16	5	14
November.....	1	1	3	0	1	1
December.....	1	0	0	2	0	1
Total fourth quarter....	— 12 —	— 8 —	— 11 —	— 18 —	— 6 —	— 16
Total for the year.....	131	176	186	177	220	218

## PRINCIPAL CAUSES OF DEATH.

	1900	1899	1898	1897	1896	1895
Cholera infantum and other diarrhœal diseases.....	142	186	201	198	266	247
Phthisis and other tubercu- loses.....	186	197	209	191	207	185
Pneumonia and bronchitis...	282	254	263	276	233	235
Infantile debility, marasmus and inanition.....	137	112	115	133	149	142
Heart disease.....	190	156	163	158	153	154
Typhoid fever.....	17	17	24	18	36	33
Apoplexy and paralysis.....	108	82	104	97	83	76
Old age.....	40	22	49	46	68	62
Diseases of the brain (unclas- sified.....	41	29	24	38	49	55
Convulsions.....	41	43	41	29	48	57
Diseases of the kidneys.....	73	54	91	46	64	62
Meningitis.....	65	53	59	98	59	62
Diphtheria and croup.....	27	40	36	41	47	53
All other causes.....	500	603	429	486	439	434
Totals for the year.....	1849	1848	1808	1855	1901	1857

## VITAL STATISTICS.

	1900	1899	1898	1897	1896	1895
Deaths, male.....	947	923	924	917	902	943
Deaths, female.....	902	925	884	938	999	914
	1849	1848	1808	1855	1901	1857
Children under one year....	512	551	516	533	584	566
Children under two years...	608	655	622	596	729	689
Children under five years...	687	773	708	778	844	788
Per cent. of total deaths under five years.....	37.1	41.8	38.1	41.9	42.4	42.8

Birthplace.	Of Deceased.	Of Parents.
Lowell.....	878	176
Massachusetts, elsewhere.....	114	196
Other states.....	219	409
Ireland .....	283	1046
Canada .....	170	1023
Great Britain.....	93	273
Other countries.....	64	261
Unknown.....	28	314
	<hr/>	<hr/>
	1849	3698

## PLACES OF DEATH.

Ward 1.....	126
Ward 2.....	175
Ward 3 .....	151
Ward 4.....	168
Ward 5.....	171
Ward 6.....	178
Ward 7.....	375
Ward 8.....	137
Ward 9.....	117
Almshouse .....	92
Lowell Hospital.....	44
Lowell General Hospital.....	27
St. John's Hospital.....	88
	<hr/>
Total deaths.....	1849
Still births during the year.....	117

## PLACES OF INTERMENT.

St. Patrick's Cemetery.....	710
Edson Cemetery.....	413
Lowell Cemetery.....	84
St. Joseph's Cemetery (Chelmsford).....	455
St. Peter's.....	1
Other cemeteries.....	9
Removed from city.....	177
	<hr/>
	1849

## DEATHS CLASSIFIED.

	1900	1899	1898	1897	1896	1895
Diseases of the nervous system .....	255	207	227	254	257	258
Diseases of the circulatory system.....	212	169	166	166	160	159
Diseases of the respiratory system .....	305	271	293	289	262	252
Diseases of the digestive system .....	142	141	123	115	84	101
Diseases of the genito-urinary system .....	78	54	101	54	75	77
All other local diseases.....	41	97	24	54	14	14
	—	—	—	—	—	—
Total deaths from local diseases.....	1033	939	934	932	852	861
Total deaths from zymotic diseases .....	249	347	305	324	412	392
Total deaths from constitutional diseases.....	266	280	274	274	313	294
Total deaths from developmental diseases.....	235	212	232	268	257	241
Total deaths from violent or unknown causes.....	66	70	63	57	67	69
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Total deaths from all causes	1849	1848	1808	1855	1901	1857



## DISEASES IN 1900 COMPARED WITH 1899.

	Decrease.	Increase.
Cholera infantum and other diarrhœal diseases..	44	
Phthisis and other tuberculoses.....	11	
Pneumonia and bronchitis .....		28
Infantile debility, marasmus and inanition .....		25
Heart disease .....		34
Typhoid fever .....	0	0
Apoplexy and paralysis.....		26
Old age.....		18
Diseases of the brain (unclassified) .....		12
Convulsions .....	2	
Diseases of the kidneys.....		19
Meningitis .....		12
Diphtheria and croup.....	13	
All other causes ..	103	
	<hr/>	<hr/>
	173	174
Total increase.....		1

## DEATH RATE.

	Year.	Population.	Deaths.	Death Rate.
Population, census.....	1890	77,696	1959	25.21
Population, estimated....	1891	79,029	1972	24.95
Population, estimated....	1892	80,361	2224	27.67
Population, estimated....	1893	81,694	2094	25.62
Population, estimated....	1894	83,026	1775	21.38
Population, census, .....	1895	84,359	1857	22.01
Population, estimated....	1896	85,700	1901	22.18
Population, estimated....	1897	87,000	1855	21.32
Population, estimated....	1898	87,000	1808	20.78
Population, estimated....	1899	90,114	1848	20.50
Population, census ..	1900	94,969	1849	19.47

TABLE SHOWING DEATHS IN EACH MONTH AND YEAR FOR THE PAST TWENTY-THREE YEARS.

Months	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
January	64	105	107	84	115	113	124	103	105	172	158	149	246	160	306	191	178	137	124	144	125	178	142
February	78	69	93	103	82	91	108	121	100	161	132	124	137	156	200	155	160	174	143	155	119	142	127
March	104	78	125	109	91	102	121	107	150	163	152	127	130	185	197	202	150	168	170	173	141	153	205
April	84	83	103	111	105	122	110	114	125	180	166	182	165	150	184	177	130	162	175	117	137	146	172
May	82	73	90	101	112	100	98	99	121	162	124	144	157	161	155	192	117	107	117	153	131	161	147
June	78	70	103	86	99	118	87	105	116	133	107	176	114	144	145	146	116	135	131	125	135	151	126
July	137	108	135	144	137	156	143	134	155	205	189	186	220	207	229	258	203	198	237	174	226	211	198
August	127	97	146	146	137	139	136	137	161	182	180	196	200	195	204	205	155	176	223	201	203	170	177
September	121	75	134	184	127	152	131	106	124	138	152	182	157	173	177	164	153	162	157	162	169	143	144
October	78	92	95	97	118	102	107	99	116	130	149	145	129	153	145	121	147	156	157	154	151	142	134
November	58	74	89	93	81	105	106	107	96	123	113	120	138	119	119	116	126	136	126	145	116	110	127
December	82	82	89	105	113	120	110	97	130	123	141	168	166	169	163	168	140	146	141	152	155	141	150
Totals	1094	1006	1363	1363	1327	1420	1380	1329	1499	1872	1763	1899	1959	1972	2224	2095	1775	1857	1901	1855	1808	1848	1849

## COLLECTION OF ASHES.

	1900	1899
January .....	2949 loads	3178 loads
February .....	2612 loads	2710 loads
March .....	2881 loads	2244 loads
April .....	2759 loads	2591 loads
May .....	2737 loads	2082 loads
June .....	2195 loads	1808 loads
July .....	2026 loads	1636 loads
August .....	2061 loads	1821 loads
September .....	1918 loads	1767 loads
October .....	2185 loads	2017 loads
November .....	2446 loads	2268 loads
December .....	2904 loads	2450 loads
	<hr/>	<hr/>
	29,673 loads	26,572 loads

## COST OF COLLECTION.—LABOR PAY ROLL.

1891 .....	\$8,011 19
1892 .....	9,857 42
1893 .....	11,542 94
1894 .....	12,087 93
1895 .....	10,591 40
1896 .....	11,311 25
1897 .....	12,793 15
1898 .....	11,209 70
1899 .....	10,903 30
1900 .....	10,665 35

COMPARATIVE STATEMENT OF NUMBER OF LOADS OF ASHES  
COLLECTED DURING FOUR MONTHS OF THE SUMMER  
AND FOUR MONTHS OF THE WINTER OF 1900.

Summer.	Loads.	Winter.	Loads.	Difference in Excess for Winter.
June.....	2104	Jan.....	2891	787
July .....	1942	Feb.....	2565	623
Aug.....	1992	March .....	2802	810
Sept. ....	1851	Dec.....	2831	980

568 loads waste paper, not included in table.

WHERE DUMPED.

Locks & Canals.....	Aiken Street.
Percy Parker Estate.....	Richardson “
E. B. Pierce .....	Cambridge “
J. W. Bennett.....	Tanner “
John P. Mahoney .....	State “
E. A. Thissell.....	Fay “
Burgess Estate. ....	Rear Shaw “
Spaulding Estate.....	Columbus Avenue.
J. W. Bennett .....	Florence “
Connors Bros.....	Plain Street.
Eben B. Stafford.....	Mammoth Road.
Thomas Costello.....	Nesmith Street.
James Mellen .....	Pentucket Avenue.
C. I. Hood.....	Andover Street.
J. W. B. Shaw.....	Pentucket Avenue.

GARBAGE AND MARKET REFUSE BURNED AT CREMATOR JAN.  
1ST TO DEC. 31ST, 1900.

109 tons swill.  
514 tons market refuse.  
215 dogs.  
236 cats.  
230 bags rags.  
36 mattresses.  
2 loads bedding.  
1 carpet.

## EXPENSES OF CREMATOR 1900.

Coal. ....	\$192 06
Wood.....	20 91
Oil.....	6 63
Rent of Land.....	150 00
Painting stack.....	10 00
Labor (1 man at \$2.25 per day).....	715 05
	<hr/>
	\$1,094 65

In order to show the character and source of the vile waste disposed of by burning, and in order to impress clearly the importance of a repair of the present furnace or the substitution of a new one, the detailed statement for November is appended:

Nov. 1st.	Sundry markets.....	640 lbs. meat and sawdust.
" "	Farrell .....	550 " " " "
" 2nd.	Corbett.....	300 " " " "
" "	Freeman .....	650 " " " "
" "	L. W. Hall.....	420 " " " "

Nov. 2nd.	Hospitals.....	210	lbs. swill.
" 3rd.	Gregory.....	200	" meat and sawdust.
" "	Martin.....	75	" " " "
" "	Brown.....	80	" " " "
" "	McDonald .....	500	" " " "
" "	Smart & Co.....	275	" " " "
" "	Union Market.....	200	" " " "
" 5th.	Gerow.....	300	" " " "
" "	Sundry places.....	1540	" " " "
" 6th.	Sundry places.....	200	" " " "
" 7th.	S. K. Dexter .....	400	" ancient eggs.
" "	Sundry places.....	3600	" meat and sawdust.
" "	Hospitals .....	300	" swill.
" 8th.	Sundry places.....	2400	" meat and sawdust.
" 9th.	Sundry places.....	1500	" " " "
" "	Fish markets .....	400	" decayed fish.
" "	Hospitals .....	300	" swill.
" 10th.	Bill .....	150	" eggs.
" "	Fish markets .....	420	" decayed fish.
" "	Sundry places.....	3500	" meat and sawdust.
" 12th.	S. K. Dexter .....	400	" eggs.
" "	Fish markets .....	200	" fish.
" "	Sundry places.....	1750	" meat and sawdust.
" 13th.	Sundry places.....	3845	" " " "
" 14th.	Sundry places.....	1520	" " " "
" 15th.	S. K. Dexter .....	500	" eggs.
" "	.....	820	" rags.
" "	Sundry places.....	1350	" meat and sawdust.
" 16th.	Sundry places.....	2345	" " " "
" "	Hospitals .....	340	" swill.
" "	Fish markets .....	320	" fish.
" 17th.	Sundry places.....	1860	" meat and sawdust.
" "	Fish markets .....	350	" fish.



Nov. 19th.	Sundry places.....	1570	lbs. meat and sawdust.
" 20th.	Sundry places.....	2775	" " " "
" 21st.	Hospitals .....	160	" swill.
" "	Sundry places.....	1100	" meat and sawdust.
" "	Fish markets .....	340	" fish.
" 23rd.	Hospitals .....	200	" swill.
" "	Fish markets .....	450	" fish.
" "	Sundry places.....	2900	" meat and sawdust.
" 24th.	Sundry places. ....	2350	" " " "
" 26th.	Fish markets .....	400	" fish.
" "	Sundry places.....	800	" meat and sawdust.
" 27th.	Hospitals .....	150	" swill.
" "	Sundry places. ....	1050	" meat and sawdust.
" 28th.	Sundry places.....	1125	" " " "
" 30th.	Sundry places.....	4070	" " " "
" "	T. J. McDonald.....	600	" hay and grain.

It does not require a vivid imagination to realize what the above refuse thrown on our various dumping grounds would mean to the citizens of Lowell, and it should not be permitted by the refusal to appropriate a sum of money sufficient to, at least, repair the present furnace. Not a dollar has been expended for a year on repairs and any day the shell is liable to collapse. The interior walls are arched with heavy fire clay bricks, so braced together with iron stays and rods that the entire lining is made unsafe by the breaking of one or more blocks, and as they are capped by heavy fire clay covers bound with iron, the weight

is liable at any time to crush the entire covering into the fire, which would result in a probable conflagration of the wooden structure covering the cremator and its approaches.

No. LOADS SWILL COLLECTED.

	1900.	1899.
January.....	372	331
February.....	314	282
March .....	334	318
April.....	277	289
May.....	318	322
June.....	322	325
July.....	314	319
August .....	408	414
September.....	416	401
October.....	418	351
November.....	371	342
December.....	353	341
	<hr/>	<hr/>
	4217	4035
Total collection 1900.....	4217	loads
Total collection 1899.....	4035	loads
Total collection 1898.....	3666	loads

## SWILL ACCOUNT.

## Cash paid City Treasurer:

	1900.	1899.
January.....	\$295 00	\$297 50
February.....	256 00	156 50
March.....	237 00	215 00
April.....	271 00	231 00
May.....	318 00	199 50
June.....	195 00	365 50
July.....	228 00	448 00
August.....	268 00	455 00
September.....	307 00	449 00
October.....	278 00	232 00
November.....	278 00	298 00
December.....	317 00	200 00
Permits.....	175 00	195 00
	<hr/>	<hr/>

## Swill exchanged for hay:

January	18,970 lbs. at \$20 per ton..	189 70
February	8,350 " " " ..	83 50
March	3,795 " " " ..	37 95
May	2,490 " " " ..	24 90
June	5,995 " " " ..	59 95
July	12,710 " " " ..	127 10
August	2,785 " \$23 " ..	30 73
September	6,950 " " " ..	80 12
November	14,185 " " " ..	164 11
December	3,710 " " " ..	42 66
December	3,600 " exchanged for manure....	36 00
		<hr/>

Total cash and hay.....	\$4,299 72	\$3,742 00
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# DISPOSITION OF SWILL.

Cost of Collecting Swill. Labor. Pay Roll.	Disposition of Swill.	Income from Swill.	Cost of Burning.	Amount Burned.	Total Cost Collection and Cremation of Swill and Garbage
1883. No Analysis.	Sold.	\$1,018.74			
1884. "	"	2,671.85			
1885. "	"	3,711.38			
1886. "	"	4,342.00			
1887. "	"	3,604.00			
1888. "	"	2,739.85			
1889. "	"	2,948.52			
1890. "	"	3,166.00			
1891. \$6,000.00	"	3,945.57	Cost of Cremator.		
1892. 5,593.02	Burned.	3,239.92	\$8,000.00		\$13,593.02
1893. 7,022.66	"		7,670.77	3500 tons.	14,693.43
1894. 7,122.00	"		5,742.69	3486 "	12,864.69
1895. 7,035.97	"		3,662.53	2750 "	10,698.50
1896. 7,064.67	"		3,343.34	2810 "	10,408.01
1897. 7,234.76	Part Burned	\$2,369.99	2,612.07	2629 "	9,846.07
1898. 7,658.20	and	2,445.40	1,644.21	874 "	9,302.41
1899. 7,193.30	Part Sold.	3,547.00	1,397.86	105 "	8,591.16
1900. 7,083.30	All Sold.	{ Cash Hay	1,094.65	109 "	8,177.95

## SWILL LICENSES.

W. H. Dixon.....	West Dracut.
Geo. D. Coburn.....	Dracut.
McDonald Bros.....	Lowell.
D. G. Wilson.....	"
Joseph Bowers.....	"
N. A. Glidden.....	Chelmsford.
Mrs. Ann Doyle.....	Lowell.
Charles Salls.....	"
J. H. Burns.....	"
Manuel J. Pieriera.....	"
John B. Robarge.....	Chelmsford Centre.
E. E. Hildreth.....	Chelmsford.
C. F. Devine.....	"
Joseph Loiselle.....	East Chelmsford.
H. Meunier.....	Dracut.
David Benoit.....	"
Calvin Richardson.....	"
P. Littlefield.....	"
Jas. McManmon.....	"
Herbert Moulton.....	Middlesex Village.
W. F. Richardson.....	Pelham.
F. L. Peabody.....	"
Jacques Boisvert.....	Lowell.
W. P. Sweetsir.....	Westford.
J. P. Eaton.....	Chelmsford Centre.
Patrick O'Brien.....	Lowell.
Thomas Burton.....	Pelham, N. H.
C. O. Robbins.....	Westford.
Dracut Town Farm.....	Dracut.
Geo. E. Spaulding.....	Chelmsford Centre.
Louis Hervey.....	Dracut.
Geo. Southworth.....	Chelmsford.
Geo. Spaulding.....	West Chelmsford.

## SWILL PERMITS — TO TRANSPORT SWILL FROM CITY YARD.

B. Ravenelle .....	South Lowell.
Jas. H. Manley .....	Tewksbury.
John Briscoe .....	Mammoth Road.
F. A. Fox .....	Dracut.
Wm. Nolin .....	Collinsville.
S. P. Pike .....	Lowell.
H. W. Wilson .....	Carlisle.
D. N. Cluff .....	Dracut.
Thos. Gourgeon .....	"
O. J. Coburn .....	"
Geo. Stiles .....	Tyngsboro.
Enoch Mills .....	Dracut.
Joseph Norman .....	Tyngsboro.
Louis Marion .....	North Tewksbury.
C. G. Nichols .....	Carlisle.
Fred Lewis .....	Chelmsford.
Mrs. Chas. Jones .....	Dracut.
Chas. Kent .....	Pelham.
E. L. Dow .....	Chelmsford Centre.
A. Bouchard .....	Lowell.
Paul Vigeant .....	"
W. H. Peabody .....	Pelham.
P. J. Riedy .....	Lowell.
Louis Daigle .....	Dracut.
R. D. Snow .....	"
Leonard Mansfield .....	South Chelmsford.
Fred Haskell .....	Dracut.
E Paignon .....	Chelmsford.
A. Parker .....	Dracut.
Chas. Whitney .....	Westford.
D. E. Cameron .....	Dracut.



Alex. Parker .....	Dracut.
W. P. Sweetsir .....	Lowell.
John Graves.....	Dracut.
G. N. Parker ..	"

## GARBAGE COLLECTION AND DISPOSAL.

This work has, during the past seven years, been carried on at a constantly decreasing expense. From an expenditure of \$14,693.43 for this purpose in 1893, successive reductions of expenditure yearly have been made to \$8,177.95 in 1900. This annually decreasing outlay has been brought about despite our constantly increasing population and enlargement of area, by the gradual return to the system of permitting the use of garbage as food for swine upon farms adjacent to the city. So long as an appropriation is refused for the erection of a cremator, we will be able to keep the expense of collection, supervision and disposal at such figures as not to exceed, by any large amount, the outlay of the year 1900. The estimated outlay for the erection of furnace, the cost of running and the loss of income from swill would probably amount to \$20,000 a year.

It is more than likely that measures restrictive of the use of garbage and swill will be introduced in the Legislature before many years have passed. The city's interest in the matter is not one of

economy solely, and that the citizens are anxious to have the sale of swill stopped and another unobjectionable method of disposing of kitchen refuse adopted, is made clear by the following letter sent to the Board and the City Council:

*“Whereas, We, the Middlesex Women’s Club of Lowell, believe the vital interests of this community require the cremation of all the swill and garbage of this city, and*

*Whereas, We believe this work can be done by contract to the advantage of the city and without injury to local labor interests.*

*Resolved, That we, the Middlesex Women’s Club, beg the Mayor and City Council to consider the appropriation of a sum of money for the making of a contract for the disposal of all the ashes, and the cremation of all the swill of the city.*

*Resolved, That a copy of these resolutions be sent to the Mayor and City Council and to the Board of Health by the Secretary of the Club.”*

There is no department of the city that comes as close to the families and houses as this in its care and disposal of the waste products made at the homes of its citizens. The housewife is vitally interested that there should be as frequent collections as possible of the swill, garbage and ashes so that

the exterior of her home be free from objectionable and foul smelling wastes. And while one million dollars are spent for the current expense, yearly, of the city, the work that keeps the home clean, sweet and healthy should have the willing and glad assistance of the City Council in keeping its conditions to the highest standard.

In order to present this question within reasonable limits for information and reference, a brief history of the city's experience since it attempted to destroy the swill and garbage by cremation in an Engle furnace is given herewith.

For a number of years prior to 1892, that part of the swill that was collected by the department was taken to a swill house on land owned by the Locks & Canals Co., off Aiken Street, and there thrown into a huge pen and sold from said pen by the barrel to farmers. As the place was within sight and smell of the patrons of the Street Railway Co., on its trips to and from Lakeview, the traffic was a source of continual complaint to the Boards of Health and Aldermen, culminating, finally, in the passage of an appropriation through the City Council, of eight thousand dollars (\$8,000) for the purchase of a cremator, and June 6th, 1892, the resolution was signed by the Mayor. As the contract for the building of the cremator was delayed by the negotiations for land upon which to erect, it was not completed and signed until Sept. 15th, 1892.

As was expected by the Board, some of the residents in the vicinity of the location objected, and quite a number, some of whom lived miles distant from the location, signed and presented a petition to the Superior Court asking for an injunction to prevent the Board from building the furnace on the ground selected. The members of the Board were summoned before the Court, but the case as presented by the counsel for the objectors was so weak that the Judge declined to hear anything from the Board, and gave the petitioners leave to withdraw at once.

The cremator was ready for trial December 14th, 1892, and herewith is presented a tabulated statement showing the amounts of swill and cost of same since 1892. The cost includes pay roll for labor, both on swill teams and at cremator, but does not include the cost and maintenance of horses, as both ash and swill teams are charged to the stable account. We suppose a fair estimate would be an additional charge of seven horses at \$110 per year, say \$800.

The figures from 1893 to 1896 are reliable, after that to 1899, very grave irregularities controlled the results as given in the reports of 1897 and 1898, so that they are of no value for statistical study.

As it was the vote of both branches of the City Council in 1899, sustained by the action of the



Mayor by declining to sign the contract made by the Board of Health by which all the swill, ashes and garbage of the city would have been collected and consumed for twenty-six thousand five hundred dollars (\$26,500) annually for a term of five years, there remains the alternative of selling the swill to be fed to swine or erecting and maintaining a cremator through the ownership and control of the city, and in order to ask for contracts to build, the City Council must appropriate such an amount as they deem sufficient for the purpose, under the provisions of Section 8 of the Charter Amendments of 1896.

“No sum appropriated for a specific purpose shall be expended for any other purpose; and no expenditure shall be made and no liability shall be incurred by or on behalf of the city, until the City Council has duly voted an appropriation sufficient to meet such expenditure or liability.”

The petition of the Middlesex Women's Club of Lowell to the Mayor and City Council, recognized the fact that the cremation of all the swill and garbage of the city would involve considerable expense, as they added to the expression of the wish, the following resolution:

“*Whereas*, In consideration of the expense involved and the large amount of the year's appropriation, we recognize the importance of adding no more to the city's expenditures.”

The City Council very properly upon the receipt of the petition, voted and did appoint a committee to join any number that should be appointed by the Aldermen, and together make such examination of the garbage problem as would warrant them in submitting such report to the full government, with such recommendations as in their judgment, would be for the best interest of the city. The Aldermen did not see fit to join the Council in conference, but did refer the communication to the Mayor, with instructions to confer with the Board of Health.

As the Board has been for years in favor of cremation, and were, therefore, in harmony with the Mayor, only differing as to the City or contract work, the only thing left to do for the City Council was to vote to refuse or vote for a sufficient appropriation for the erection of a cremator, when the Mayor and Board of Health would at once have asked for bids from the different makers of furnaces that have plants in operation in the cities and towns in other states.

It has required the most careful supervision and rigid economy for this department to struggle through the year 1900 with an appropriation of \$15,000 less than was expended during the year 1895. Our teams for the collection of swill are made of wood and have been in use so long that no amount of care, washing and disinfection will



prevent the leaving behind them in their journeys through the city, the foul odor that is soaked through them by constant use. The twenty-five horses that we work every day, through rain and shine, are caparisoned in harnesses that reflect but little credit, and the majority of the horses are kept in sheds that are a shame and disgrace to the City of Lowell. In consideration of the above mentioned necessities of the department, the Board has repressed and controlled the wish to own a cremating plant that will cost thousands of dollars, when we have now one that, with the expenditure of a few hundreds, will place Lowell at the head of Massachusetts cities in the collection and disposal of garbage.

As this question must be considered, both from a sanitary and financial aspect, and as there is a disposal which is sanitary and still precludes adoption from the expense, it is reasonable to believe that time will aid toward the proper solution, and with our present plant repaired, Lowell can afford to await a more thorough investigation before indulging in expensive luxuries.

There are two sides to this question and ample room for honest difference of opinion, and this department has subject to the call of any committee a full assortment of cremation literature, and in order that comparison may be made as to the methods employed and the cost of the collection and dis-

posal of swill and garbage in such cities of Massachusetts as approximate the size and population of Lowell, the following statistical information based upon the reports of the year 1899, may be of value to the student and citizen:

**BOSTON, MASS. 1899.**

Population, 560,892.

Cost of Health Department proper.....	\$145,020 76
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Maintenance Sanitary Division.....	606,272 65
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Income .....	39,164 84
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Disposition of swill: Cremated.

Number of loads of house offal removed, 59,956.

\$1.08 per capita.

**WORCESTER, MASS. 1899.**

Population, 118,421.

Health Department proper (Hospital for contagious diseases).....	\$22,955 50
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Collection of swill.....	17,109 00
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Swill taken to City Almshouse and fed to swine. City keeps from 400 to 1,800 hogs. Received for pork, \$10,461.52. In charge of Pauper Department. Employ 22 men, 30 horses, 18 wagons. Household-ers have to take care of their ashes.

34 cents per capita.

## FALL RIVER, MASS. 1899.

Population, 104,863.

Health Department proper 1899 (35 cases small-pox) .....	\$30,000 00
Collection of ashes (Street Department) ..	21,000 00
Collection of swill (Contract five years) ..	13,000 00
	<hr/>
	\$64,000 00

62 cents per capita.

## CAMBRIDGE, MASS. 1899.

Population, 91,886.

Cost of Health Department (office) .....	\$19,754 04
Cost of Pauper Department (collection of swill) .....	25,958 65
Cost of Street Department (collection of ashes) .....	22,000 00
	<hr/>
	\$67,712 69

2,384 cords swill. Income from swill, \$6,997.40.

Cost per capita, 73 cents.

## LOWELL, MASS. 1899.

Population, 90,114.

Cost of Health Department proper .....	\$9,970 57
“ “ collection of ashes .....	17,405 58
“ “ “ “ swill .....	11,017 70
“ “ small-pox .....	1,038 52
“ “ cremation .....	1,397 86

4,035 loads swill. Income from swill, \$3,796.05.

45 cents per capita.

## NEW BEDFORD, MASS. 1899.

Population, 62,442.

Cost of Health Department proper.....	\$20,513 25
---------------------------------------	-------------

Cost of collection of ashes (Street Department) .....	10,128 62
---	-----------

Cost of collection of swill (contract).....	15,000 00
---	-----------

Swill fed to swine. .

73 cents per capita.

## LYNN, MASS. 1889.

Population, 68,513.

Cost of Health Department proper.....	\$16,409 93
---------------------------------------	-------------

“ “ collection of ashes.....	12,476 85
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“ “ “ “ swill .....	12,701 38
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Total cost Health Department.....	\$41,588 16
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Income from swill and ashes, \$2,734.91.

Swill fed to swine.

66 cents per capita.

## SOMERVILLE, MASS. 1899.

Population, 61,643.

Cost of Health Department proper.....	\$3,434 25
---------------------------------------	------------

“ “ collection of ashes.....	10,475 04
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“ “ “ “ swill .....	15,090 22
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	\$28,999 51
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26,093 loads ashes.

5,637 loads swill.

\$1,000 income from swill sold.

45 cents per capita.

## STABLE AND YARD.

It has been, in this branch of the work, a year of very satisfactory results, free from friction or scandal. Owing to the breaking down of some of the horses, that was anticipated by our asking for an appropriation for some new ones, the request not being granted, by the Appropriation Committee, we were obliged to take the money from our scant appropriation for "Sundries" and buy four new horses; but being forced to dispose of six as unfit for work, we are now the owners of two horses less than the number with which we commenced the year.

At present we are boarding for their feed and care, seven horses from the Street Department used by them during the summer months for street watering purposes. So that we have twenty-six horses in commission at the present writing. One new buggy, one new swill wagon, five new single and two new double harnesses have also been bought, and we shall have need of at least twelve new harnesses during 1901. Owing to the increase in the amount of waste paper, the introduction of the eight-hour law and the additional houses placed under our control by the corporations selling large parts of their tenement property to private individuals, we were obliged to put on one more team to do the work properly.



Following is a schedule of the property in control of the Board of Health:

## HORSES.

1	Bay horse,	"Sam,"	12 yrs.	1425 lbs.	fair,	\$ 50 00
2	Black horse,	"Dandy,"	13 "	1500 "	fair,	75 00
3	Brown horse,	"Jim,"	14 "	1400 "	fair,	50 00
4	Brown horse,	"Klondike,"	18 "	1500 "	sore forward,	30 00
5	Black horse,	"Harry,"	10 "	1400 "	sound,	100 00
6	Bay horse,	"Peter,"	9 "	1400 "	sore forward,	25 00
7	Bay mare,	"Bridget,"	9 "	1420 "	sound,	90 00
8	Bay horse,	"Jack,"	8 "	1400 "	sound,	120 00
9	Bay mare,	"Sue,"	8 "	1400 "	sore forward,	60 00
10	Black horse,	"Major,"	8 "	1350 "	sound,	125 00
11	Bay horse,	"Baldy,"	12 "	1600 "	sound,	125 00
12	Bay horse,	"Fred,"	14 "	1300 "	sound,	125 00
13	Brown mare,	"Kate,"	10 "	1350 "	sound,	125 00
14	Brown mare,	"Maggie,"	13 "	1300 "	sore forward,	30 00
15	Bay horse,	"Duke,"	14 "	1100 "	sore forward,	50 00
16	Sorrel mare,	"Flora,"	9 "	1150 "	sound,	85 00
17	Gray mare,	"Grace,"	8 "	1400 "	sound,	150 00
18	Black horse,	"Nigger,"	9 "	1400 "	sound,	150 00
19	Bay horse,	"Joe,"	9 "	1500 "	sound,	150 00



## WAGONS AND SLEDS.

1 ambulance .....	\$175 00
1 hospital wagon.....	65 00
4 double ash carts, at \$50 each.....	200 00
1 new double ash cart.....	150 00
8 single ash carts, at \$50 each.....	400 00
4 double ash sleds, at \$70 each .....	280 00
14 single ash and swill sleds, at \$50 each	700 00
1 double swill wagon .....	100 00
10 single swill wagons, at \$50 each....	500 00
1 coupe .....	75 00
2 paper wagons, at \$50 each.....	100 00
2 sleighs .....	25 00
2 pungs ... ..	35 00
2 Concord wagons .....	125 00
1 Goddard buggy.....	100 00
1 covered sleigh .....	50 00
1 Moyer buggy.....	135 00
	<hr/>
	\$3,215 00

## HARNESSES AND ROBES.

1 set double harnesses for ambulance ..	
1 set single harnesses for ambulance...	
22 single harnesses, at \$20 each.....	\$440 00
6 double harnesses, at \$30 each.....	180 00
28 halters .....	7 00
2 horse covers.....	4 00
2 wolf robes .....	
3 woolen lap robes .....	
22 stable blankets.....	50 00
3 stable blankets.....	6 00
2 rubber lap robes.....	3 00

5 surcingles .....	2 50
24 curry combs and brushes .....	20 00
17 canvas covers for ash carts .....	30 00
12 mane brushes .....	3 00
12 cards .....	2 00
1 large canvas .....	2 00
6 sponges .....	1 00
1 extra heavy saddle .....	20 00
6 collars .....	24 00
9 collar pads .....	4 50
9 harness pads .....	1 00
8 zinc pads .....	1 00
1 sheepskin .....	2 00
4 sets reins .....	5 00
5 trace girts .....	2 00
6 shafts lugs .....	2 00
4 sets hold-back straps .....	2 00
4 saddle girts .....	2 00
5 summer blankets .....	3 00
25 stall straps .....	6 00
7 strings bells ....	7 00
	<hr/>
	\$832 00

## SUMMARY.

Horses .....	\$1,715 00
Wagons and sleds .....	3,215 00
Harnesses and robes .....	832 00
Miscellaneous .....	250 95
Carpenter shop .....	350 00
Blacksmith shop .....	400 00
Small-pox hospital .....	500 00
Engle cremator .....	500 00
	<hr/>
	\$7,762 95

## DIVISION EXPENSE CHARGES OF OFFICE AND YARD.

*Office.*

Salaries of Board of Health.....	
Salary of Bacteriologist.....	
Executive control of Department..	
Office expenses.....	
Registration of deaths.....	
"    "    contagious diseases.....	
Inspection    "    "    "    .....	
Placarding    "    "    "    .....	
Inspection    "    "    funerals or recoveries....	
Disinfection after    "    "    "    "    .....	
Inspection of plumbing.....	
"    "    tenement houses.....	
"    "    nuisances.....	
"    "    stables.....	
"    "    bakeries.....	
Control of and permits to undertakers.....	
Physician to Board.....	
Statute vaccination of children.....	
Bacteriological Department.....	
Small-pox hospital.....	

*Yard.*

1 general utility.....	7 days at \$2 50
3 watchman (8 hours each).....	7 " " 2 00
1 fumigation.....	6 " " 2 50
1 blacksmith.....	6 " " 2 50

1 carpenter .....	6 days at \$2 00
10 ash team drivers.....	6 " " 2 00
10 ash team helpers.....	6 " " 1 80
6 swill team drivers.....	6 " " 2 00
6 swill team helpers.....	6 " " 1 80
2 paper team drivers.....	6 " " 2 00
2 paper team helpers.....	6 " " 1 80
1 dump man.....	6 " " 1 80
19 horses owned.....	
7 horses borrowed from Street Dept....	
Maintenance of stable.....	
Cremator .....	

## FINANCIAL STATEMENT.

*Expenditures.*

## Pay Rolls — Office.

January.....	\$505 50
February.....	409 00
March.....	642 50
April.....	514 00
May.....	514 00
June.....	642 50
July.....	514 00
August.....	514 00
September.....	642 50
October.....	514 00
November.....	514 00
December.....	671 00
	<hr/>
	\$6,597 00

## Pay Rolls — Yard.

January.....	\$1,997 95
February.....	2,159 30
March.....	2,566 35
April.....	2,139 30
May.....	2,026 95
June.....	2,800 60
July.....	2,061 40
August.....	2,035 35
September.....	2,478 55
October.....	1,983 60
November.....	2,114 06
December.....	2,745 49
	<hr/>
	\$27,108 90

## ANALYSIS OF PAY ROLLS OF 1900 COMPARED WITH 1899.

	1900.	1899.	Decrease.	Increase.
Ashes.....	\$10,665 45	\$10,903 30	\$237 85	
Swill.....	7,083 30	7,193 30	110 00	
Alleys and dumps...	2,765 90	2,380 90		\$385 00
General inspection. ..	1,878 00	1,872 00		6 00
Contagious inspection.	1,130 50	1,272 25	141 75	
Repairs.....	1,272 05	843 50		428 55
Inspector of plumbing	1,095 50	1,092 00		3 50
Blacksmith.....	782 50	780 00		2 50
Stable.....	2,826 35	1,978 60		847 75
Agent.....	1,825 00	960 50		864 50
Superintendent.....		210 00	210 00	
Registrar.....	626 00	624 00		2 00
Cremator.....	715 05	690 30		24 75
Small-pox ....	1,040 30	228 80		811 50
	<u>\$33,705 90</u>	<u>\$31,029 45</u>	<u>\$699 60</u>	<u>\$3,376 05</u>
Total increase in 1900.....				\$2,676 45

## MONTHLY BILLS OF HEALTH DEPARTMENT FOR 1900.

	1900.	1899.
January . . . . .	\$1,041 52	\$97 09
		802 53
February . . . . .	408 01	498 77
March . . . . .	794 27	696 18
April . . . . .	625 21	868 06
May . . . . .	1,318 36	505 82
June . . . . .	1,871 22	583 84
July . . . . .	1,027 08	611 38
August . . . . .	1,670 61	731 62
September . . . . .	553 33	452 44
October . . . . .	438 25	1,198 89
November . . . . .	426 91	535 71
December . . . . .	335 44	718 45
	<u>\$10,510 21</u>	<u>\$8,300 78</u>



## ANALYSIS OF BILLS.

*Office.*

## Sundries at office.

Plumbing supplies.....	\$4 79
Mileage.....	40 00
Asses. B. of H.....	1 50
Express.....	7 05
Printed supplies.....	137 67
Fumigating supplies .....	71 21
Sundry supplies.....	110 53
Stamps and envelopes.....	64 50
Directories.....	4 00
Vaccine.....	49 76
P. O. box.....	4 00
	<hr/>
	\$495 01

Printing Annual Report.....	50 16
Medical services and public vaccination..	369 00
Bacteriological department.....	155 30
Telephone .....	129 18
Board and medical attendance at Lowell Hospital .....	18 57
Rent of land for cremator.....	75 00
Use of horses at stable.....	35 50
	<hr/>
	\$1,327-72

*Yard.*

Hay.....	\$682 78
Corn and meal.....	94 86
Oats.....	1,382 99
Straw and shorts.....	162 75

## Sundries at stable.

Blacksmith supplies.....	\$229 77	
Harness repairing supplies.....	67 97	
Sundry supplies.....	282 47	
Lumber.....	134 64	
Blankets .....	27 60	
Coal.....	74 11	
Gas.....	104 00	
Laundry .....	8 00	
Ice.....	5 83	
Oil .....	3 45	
Plumbing .....	10 96	
Repairing chimney.....	17 60	
	<hr/>	966 40
New horses.....		595 00
Use of horses.....		196 75
New wagons .....		200 00
Repairing wagons.....		85 34
Hardware.....		74 10
Small-pox hospital.....		50 15
Cremator.....		372 10
Veterinary services and medicine.....		102 75
Water department.....		98 53
New harnesses.....		179 20
Repairing harnesses. ....		17 00
Small-pox .....		3,699 37
Insurance.....		120 00
Telephone.....		52 42
	<hr/>	\$9,132 49

## OFFICE.

	Expenditures.	Appropriations.	Balance.	Deficit.
Salaries of Board.....	\$1,500 00			
Salary of Dr. Smith...	600 00			
Pay Rolls—Office.....	6,597 00			
	<hr/>			
	\$8,697 00	\$8,763 00	\$66 00	
Bills.....	1,327 72	1,237 00		\$90 72
	<hr/>	<hr/>	<hr/>	<hr/>
	\$10,024 72	\$10,000 00	\$66 00	\$90 72
Total deficit.....				\$24 72

## YARD.

Pay Rolls.....	\$27,108 90	\$27,112 00	\$ 3 10	
Bills.....	9,132 49	8,888 00		\$244 49
	<hr/>	<hr/>	<hr/>	<hr/>
	\$36,241 39	\$36,000 00	\$ 3 10	\$244 49
Total deficit.....				\$241 39
Deficit—Office.....				\$ 24 72
Deficit—Yard.....				241 39
				<hr/>
Total deficit.....				\$266 11

## COST OF THE HEALTH DEPARTMENT FOR THE YEAR 1900.

		Appropriations.	
Salaries Board of Health	\$ 1,500 00	Office, salaries..	\$ 8,763 00
Salary Bacteriologist....	600 00	Office, sundries	1,237 00
Pay rolls, office..	6,597 00	Yard, labor...	27,112 00
Pay rolls, yard.....	26,020 15	Yard, sundries.	8,888 00
Pay rolls, small-pox....	1,088 75	General Fund..	266 11
Bills, office .....	1,327 72		
Bills, yard.....	5,464 52		
Bills, small-pox.....	3,667 97		
	<hr/>		<hr/>
	\$46,266 11		\$46,266 11

Larger expenditures in 1900 than in 1899.....	\$5,435 88
Accounted for by cost of 23 cases of small-pox.....	\$4,756 72
Accounted for by extra watchmen at yard, 8-hour law.....	730 00
	<hr/> \$5,486 72
Larger income in cash and hay from swill than in 1899 .....	\$475 00
Probable return from State to City of.....	\$2,806 57

## INCOME.

## Transferred to general appropriations:

Sale of swill....	\$3,248 00
Swill permits....	175 00
Cremator ashes.....	30 00
Plumbers' licenses.....	51 50
Bill posting at yard. ....	40 00
Sale of horse.....	45 45
" " paper .....	25 00
" " old wheels.....	9 00
" " old wagon .....	8 00
Use of mileage book.....	15 08

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Total to general fund..... \$3,647 03

	1900.	1899.
Total payments to general fund.....	\$3,647 03	\$3,796 05
Decrease paid to general fund in 1900:	\$149.02 less	
than in 1899.		

## SUMMARY AND REVIEW.

There is an increasing disposition in pulpit, press and public gatherings to condemn city departments, without any effort to determine, if occasionally there may not be some that are more entitled to commendation than to censure. This habit sometimes leads the responsible official to distrust and undervalue public opinion as uninformed and untrustworthy, and more likely as a rule, to support for public office those who are noisy in their promises than those who quietly accomplish good results. This is the first entire year since 1898 that the Health Department has been able to free itself from the baneful influences of an administration that curtailed its income and impaired its efficiency, and therefore, the exhibit of their Report is commended to the public for examination and perusal. Statistical tables are always skipped by the general reader and therefore we will try to give their import in the following condensation:

Lowell population (census 1900).....	94,969
Total number of deaths.....	1,849
Death rate (smallest since 1879).....	19.45
Deaths from diphtheria (smallest since 1891).....	27
Deaths from scarlet fever (never equalled since Lowell's incorporation).....	0
Deaths from measles.....	1
Deaths from typhoid fever (smallest since 1865).....	17

Deaths from cholera infantum (smallest since 1885).....	142
Deaths from small-pox (23 cases. Results never equalled in Lowell's history).....	0

Smallest number of deaths from contagious diseases since 1845 — 55 years.

The department for the year 1900 has collected 3,101 more loads of ashes than in 1899, at a labor cost of collection of \$10,665.35, which is \$237.95 less than the cost of 1899.

It has collected for the year 1900, 182 more loads of swill than in 1899, at a labor cost of collection of \$7,083.30, which is \$110 less than it cost in 1899, and \$574.90 less than it cost in 1898 to collect 551 loads less.

It has received in cash and hay for swill collected \$4,299.73, which is \$752.73 more than in 1899 and \$1,854.33 more than in 1898, notwithstanding the fact that in 1900 there were 39 licenses granted to farmers to collect swill, 11 more than in 1899 and 18 more than in 1898. If the gross cost of the department were credited with its income it would show this result:

Gross expenditure .....	\$46,266 11
Income from swill (cash).....	\$3,423 00
Rebate from State (small-pox).....	2,806 57
	<hr/>
	6,229 57
	<hr/>
Net cost 1900.....	\$40,036 54



This exhibit for a small-pox year and the first year that we have been compelled to do the work under an eight-hour law, is, we believe, a very satisfactory report of the stewardship entrusted to the care of the Health Department.

For the Department during the year 1901 the Board would like a new cremator, stable and six steel garbage wagons and the extension of the small-pox hospital so as to provide some convenience for the detention of suspects.

The Department *must have* during the same period five new horses, three ash sleds, one swill wagon, one paper wagon, two double ash carts, two double harnesses and six single harnesses.

In conclusion, the Board wishes to express its appreciation of the efficient and faithful services of the officials of the Department and to testify that the intelligent interest displayed by them in the performance of their work has greatly contributed to the results outlined in this Report.

Respectfully submitted,

EDMUND H. PACKER, M. D.,

JOHN H. McGUINNESS,

GEORGE W. FIFIELD,

*Board of Health.*

TABLE SHOWING RAINFALL IN INCHES BY MONTHS FOR TWENTY-THREE YEARS, 1878-1900.

Year.	Jan.	Feb.	March.	April	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1878.....	5.279	5.310	4.354	8.139	0.587	3.048	2.186	10.760	0.887	5.383	6.713	5.923	58.575
1879 . . . . .	2.475	3.762	5.013	4.030	2.279	5.709	4.378	6.176	2.167	1.434	3.364	4.465	45.262
1880.....	4.359	3.944	3.005	2.375	2.676	1.702	6.518	3.156	1.529	2.823	1.841	2.581	36.519
1881.....	5.338	3.151	7.210	1.855	4.274	4.900	2.496	1.731	2.730	1.962	4.282	4.253	44.182
1882.....	4.527	5.773	3.019	1.674	4.904	2.789	1.677	0.984	7.313	2.312	1.011	2.027	38.010
1883.....	2.923	3.405	1.885	1.895	4.640	2.036	3.583	0.909	1.487	5.292	1.730	2.623	32.418
1884....	4.944	5.703	5.013	4.110	3.684	3.064	3.198	3.977	0.924	1.945	2.328	5.149	44.039
1885.....	4.856	4.095	1.022	3.606	3.589	4.293	6.026	6.038	1.581	4.841	5.183	2.811	48.001
1886.....	6.765	6.535	3.388	1.966	3.587	1.859	3.512	3.128	3.963	2.781	4.901	4.444	46.829
1887.....	5.720	5.182	4.738	4.046	1.644	2.608	5.425	10.431	2.228	3.116	3.270	4.547	53.445
1888.....	4.661	4.307	6.519	3.782	3.890	2.809	3.057	4.857	7.966	6.780	5.982	5.35	59.915
1889.....	5.037	1.710	1.938	3.830	3.889	2.592	6.102	3.979	3.256	4.268	6.929	3.366	46.756
1890.....	2.766	3.767	6.833	1.987	5.669	3.530	3.447	4.856	4.457	7.705	1.584	4.466	51.067
1891.....	7.041	3.840	5.953	3.564	2.289	3.659	2.969	1.966	1.807	2.926	1.913	3.204	41.131
1892.....	5.389	2.742	2.643	0.628	5.861	4.444	2.321	4.304	1.973	1.378	5.829	1.106	38.618
1893.....	2.392	7.703	2.439	2.946	4.900	2.414	2.696	3.944	2.293	3.825	1.933	5.460	42.945
1894.....	3.349	3.502	1.268	3.757	4.359	0.372	2.998	0.925	3.027	3.461	3.519	3.838	34.375
1895.....	3.306	1.471	2.656	4.569	1.782	2.631	2.659	2.017	2.230	6.674	8.165	3.172	41.332
1896.....	2.243	4.649	6.310	1.335	2.316	2.683	3.786	2.759	9.066	2.995	3.023	1.126	42.201
1897... . . . .	4.351	2.958	4.146	2.248	4.945	6.106	4.619	5.630	3.037	0.592	6.487	5.320	50.439
1898.....	8.124	3.457	1.652	5.201	3.053	3.649	2.930	8.226	1.970	6.846	6.447	2.744	54.289
1899.....	3.690	5.017	7.950	1.500	2.100	2.713	4.116	2.111	3.663	1.987	2.714	1.683	39.244
1900.....	5.451	10.119	6.566	2.156	3.785	2.710	2.648	3.730	4.363	3.326	6.181	3.033	54.068











ANNUAL REPORT  
OF THE  
INSPECTOR OF MILK  
AND VINEGAR  
OF THE  
CITY OF LOWELL,

FOR THE YEAR, 1900.



LOWELL, MASS :  
UNION PRINTING COMPANY  
1901.



# REPORT.

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*To His Honor the Mayor, and the Board of Aldermen of the City of Lowell:*

GENTLEMEN:—I have the honor to submit my tenth annual report as Inspector of Milk and Vinegar.

The work of the department has been continued on the same lines as last year, by the chemical analysis of all samples of milk, vinegar, and butter taken, and many that have been brought in. There have also been many samples of water analyzed.

The duties of the Inspector, as defined by statutes under which he acts, are the issuing of licenses, the registration of stores where milk or oleomargarine are sold, collection and inspection of samples, and the enforcement of the law in the courts.

The statistics of the office and the detail of the work performed will be found under the proper headings.

## LICENSES.

The statutes require the Milk Inspector to license every person who conveys milk, in carriages or otherwise, for the purpose of selling the same, annually, on the first day of May, or within thirty days thereafter, and that they shall pay fifty cents for the use of the City. The statutes also require all stores, booths, stands, or market places, before selling milk, to register in the books of the Inspector and pay fifty cents, which fee is paid but once. Licenses are issued only in the name of owners, and may not be sold, assigned, or transferred. Each license records the name, residence, place of business, number of carriages or other vehicles used, the name and residence of every driver or other person engaged in the carrying or selling, and the number of the license.

The licensee is required to cause his name, the number of his license, and his place of business to be legibly placed on each outer side of all carriages or vehicles used by him in the sale and conveyance of milk, and to report to the Inspector any change of driver or other persons employed; for failure to comply with these requirements, or for selling or exposing for sale from carriages or other vehicles, without first being licensed, a fine of not less than thirty nor more than one

hundred dollars may be imposed. Failure to register for the sale of milk from store, booth, stand, or market place, is punishable by a fine not exceeding twenty dollars.

Number of licenses to dealers conveying milk by carriages or otherwise for the purpose of sale.....	151
Number of registrations of storekeepers engaged in the sale of milk. ....	56
<hr/>	
Total number of licenses and registrations.....	207
Received for licenses and registrations.....	\$103.50

## INSPECTION.

It is the duty of the Inspector or Collector to enter all places where milk is stored or kept for sale, and take samples for analysis. It is the custom of the Inspector to take samples from wagons and stores in about the same proportion. There are also many samples brought in by citizens which are analyzed free of charge.

In most instances where milk taken from stores has not been up to the legal standard, warnings have been issued, and in almost every case they have caused an improvement in the quality of milk sold. It is the custom to pay for milk taken from stores, but not for that taken from wagons.

Total number of milk inspections.....	2972
Total number of warnings sent.....	74



The statutes provide penalties:

For neglecting or refusing to license or register for sale of milk.

For selling or exposing for sale, adulterated milk, milk to which water or any foreign substance has been added, milk not of standard quality, milk produced from sick or diseased cows, or milk produced from cows fed on the refuse of distilleries.

For selling, or offering for sale, as pure milk, milk from which the whole or any part of the cream has been removed.

For selling skimmed milk, unless from cans or other vessels marked as required by statute.

For selling, exposing for sale, or possessing with intent to sell, milk or skimmed milk which is not of standard quality, i. e., containing less than thirteen per cent. of milk solids, in the case of whole milk; or less than nine and three-tenths per cent. of milk solids, exclusive of fat, in case of skimmed milk, except in the months of April, May, June, July and August, when whole milk shall contain not less than twelve per cent. of solids, nor less than nine per cent. of solids not fat, nor less than three per cent. of fat.

For obstructing in any manner the Milk Inspector or his assistants, in the performance of their duties.

For the sale, or exposure for sale, as cider



vinegar, vinegar which is not made exclusively of apple cider.

For the sale, or exposure for sale, of vinegar containing any artificial coloring matter, or containing any preparation of lead, copper, sulphuric acid or any ingredient injurious to health.

For the sale of any vinegar not of standard quality, i. e., containing less than four and one-half per cent. of absolute acetic acid, or, in the case of cider vinegar, of cider vinegar solids.

It is the duty of the Inspector to make complaint for any of the offences thus enumerated, which may be brought to his notice as a result of his analysis of samples, or on the information of any person who lays before him satisfactory evidence upon which to sustain such complaint.

### STANDING OF MILK.

The following is the average standing of the samples of milk analyzed each month:

#### TOTAL SOLIDS.

	From Wagons.	From Stores.
January... ..	13.09 per cent.	12.26 per cent.
February... ..	13.11 "	13.11 "
March... ..	13.06 "	13.25 "
April... ..	12.82 "	13.06 "
May... ..	13.31 "	13.26 "
June... ..	12.84 "	12.66 "
July... ..	12.41 "	
August... ..	12.67 "	12.21 "
September... ..	12.80 "	
October... ..	12.65 "	12.80 "
November... ..	13.35 "	13.00 "
December... ..	13.25 "	

During most of the year there has been an abundant supply of milk. Milk being an article of food, it is of the utmost importance that it should be properly cared for before it is delivered as well as after, and I take pleasure in saying that as far as I have been able to observe most of the milkmen take excellent care of their milk, and some are very particular to have everything that comes in contact with it as cleanly as possible.

### VINEGAR.

Samples analyzed . . . . . 113

The vinegar sold in Lowell the past year has been fully up to the standard.

### WATER.

Samples analyzed . . . . . 45

In conclusion, I wish to thank his Honor, the Mayor, for his advice and assistance in my work.

Respectfully submitted,

THOMAS O. ALLEN,

*Inspector of Milk and Vinegar.*

ANNUAL REPORT

OF THE

SUPERINTENDENT OF STREETS

OF THE

CITY OF LOWELL

FOR THE YEAR 1900



LOWELL, MASS.  
LAWLER PRINTING COMPANY  
1901





# CONTENTS.

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	PAGE
Appropriation for paving Jackson Street.....	11
"        "        "        Mammoth Road, Suffolk Street and grading and paving Bridge Street.....	12
Appropriation for extension of Aiken Street.....	12
"        "        painting Aiken Street Bridge.....	14
"        "        paving Market Street.....	14
"        "        extension Lundberg Street.....	15
Asphalt pavement.....	54
Brick sidewalks relaid.....	41
Bridges repaired.....	65
Boulevard, personal property of.....	72, 73
Bridges, maintained by.....	106, 107, 108, 109, 110
Concrete sidewalks repaired.....	35, 36
Concrete sidewalks top dressed... ..	37, 38, 39
Cinder sidewalks.....	42, 43, 44, 45, 46
Concrete crossings.....	53
Concrete crossings repaired.....	53
Concrete pavement repaired.....	54
Concrete bicycle paths.....	55
Concrete bicycle paths repaired.....	56
Cost of cleaning streets.....	63
Edgestones reset.....	57, 58
Gutters paved .....	47, 48
Granite crossings relaid.....	52
Granite pavement.....	55
Macadamized streets.....	21, 22
New sidewalks.....	29, 30
New brick sidewalks.....	40
New granite crossings .....	49, 50, 51
New edgestones.....	66, 67
New sewers .....	111, 112
Street Department, Appropriation for Salaries and Labor.....	6
"        "        "        "        Fuel, Hay and Grain.....	7
"        "        "        "        Lumber, Brick, Hardware.....	7
"        "        "        "        Land Damages.....	8

# CONTENTS—Continued.

	PAGE
Street Department, Appropriation for Engineering.....	8
“ “ “ “ Horses, Carriages etc.....	8
“ “ “ “ Trap Rock.....	9
“ “ “ “ Edgestones.....	9
“ “ “ “ Sidewalks.....	10
“ “ “ “ Sundries.....	10
“ “ personal property of.....	16, 17, 18, 19, 20
Streets graded.....	23, 24, 25, 26
Streets laid out and accepted.....	27, 28
Sidewalks passed but not built.....	31, 32, 33, 34
Streets resurfaced and repaired.....	59, 60, 61, 62
Streets repaved.....	64
Sidewalks lowered.....	69
Street catch basins built... 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98,	
99, 100, 101, 102, 103, 104, 105	
Sewer Department, personal property of.....	78 79 80 81 82
“ “ Appropriation for Labor.....	76
“ “ “ “ Sundries.....	77
Sewer Construction, Appropriation for.....	74
Sewer in Willard and Humphrey Streets, Appropriation for.....	75
Walls relaid.....	68
Watering Streets, Appropriation for Labor.....	70
“ “ “ “ Sundries.....	70
“ “ personal property of.....	71, 72, 73



## REPORT.

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*To His Honor, the Mayor, and Gentlemen of  
the City Council of the City of Lowell:*

In accordance with the requirements of the city ordinances, I hereby most respectfully submit the following report of the several departments under the charge of the late Cleveland J. Cheney, Superintendent of Streets for the year ending December 31, 1900:

P. F. BRADY,

*Superintendent of Streets.*

## Street Department.

---

### SALARIES AND LABOR.

Annual appropriation.....	\$83,200 00	
Additional appropriation.....	9,000 00	
	<hr/>	\$92,200 00
Received from sundry depart- ments for labor.....	\$ 4,023 48	
	<hr/>	\$ 4,023 48
		<hr/> <hr/>
		\$96,223 48

### EXPENDITURES.

Paid Cleveland J. Cheney, Super- intendent, salary.....	\$ 1,903 22	
Paid sundry persons, for labor..	90,301 77	
Paid appropriation for watering streets, for labor.....	112 00	
	<hr/>	\$92,316 99
Balance to General Treasury Fund		3,906 49
		<hr/> <hr/>
		\$96,223 48

## FUEL, HAY, GRAIN, ETC.

Annual appropriation.....	\$10,350 00	
	<hr/>	\$10,350 00
Received from sundry departments, for fuel, hay, grain, etc.....	\$ 522 00	
	<hr/>	522 00
		<hr/>
		<u>\$10,872 00</u>

## EXPENDITURES.

Paid sundry persons, for fuel, hay, grain, etc.....	\$10,836 36	
	<hr/>	\$10,836 36
Balance to General Treasury Fund		35 64
		<hr/>
		<u>\$10,872 00</u>

## LUMBER, HARDWARE, BRICK, ETC.

Annual appropriation.....	\$12,500 00	
Additional appropriation.....	136 08	
	<hr/>	\$12,636 08
Received from appropriation, for Sewers, Maintenance, for material.....	\$ 1 10	
	<hr/>	1 10
		<hr/>
		<u>\$12,637 18</u>

## EXPENDITURES.

Paid sundry persons, for lumber, brick, hardware, etc.....		\$12,637 18
		<hr/>

## LAND DAMAGES.

Annual appropriation.....	\$ 1,500 00	
Additional appropriation.....	1,966 00	
	<hr/>	\$ 3,466 00
		<hr/>

## EXPENDITURES.

Paid sundry persons for land damages.....		\$ 3,466 00
		<hr/>
		<hr/>

## ENGINEERING.

Annual appropriation.....	\$ 3,300 00	
Additional appropriation.....	495 14	
	<hr/>	\$ 3,795 14
		<hr/>

## EXPENDITURES.

Paid appropriation for engineering	3,795 14	
	<hr/>	\$ 3,795 14
		<hr/>

## HORSES, CARRIAGES, ETC.

Annual appropriation.....	\$ 4,000 00	
Additional appropriation.....	40 23	
	<hr/>	\$4,040 23
Received from sundry departments	\$ 1,704 14	
	<hr/>	1,704 14
		<hr/>
		\$ 5,744 37
		<hr/>
		<hr/>

## EXPENDITURES.

Paid sundry persons for sundries	\$ 2,594 37	
	<hr/>	2,594 37
Transferred to General Treasury Fund .....		3,150 00
		<hr/>
		\$ 5,744 37
		<hr/>
		<hr/>

## TRAP ROCK.

Annual appropriation.....	\$ 4,000 00	
	<hr/>	\$ 4,000 00
		<hr/>

## EXPENDITURES.

Paid Massachusetts Broken Stone		
Co. ....	\$ 1,962 81	
B. & M. R. R. ....	2 00	
N. Y., N. H. & H. R. R. Co.....	63 09	
	<hr/>	\$ 2,027 90
Balance to General Treasury Fund		1,972 10
		<hr/>
		\$ 4,000 00
		<hr/>
		<hr/>

## EDGESTONES.

Annual appropriation.....	\$12,000 00	
	<hr/>	\$12,000 00

## EXPENDITURES.

Paid F. A. Malorey.....	\$ 3,380 65	
	<hr/>	\$ 3,380 65
Transferred to General Treasury		
Fund .....		8,619 35
		<hr/>
		\$12,000 00
		<hr/>
		<hr/>

## SIDEWALKS.

Appropriated .....	\$ 4,929 72	
	<hr/>	\$ 4,929 72
Received from appropriation for Location of Water Tower for stone .....	10 00	
	<hr/>	10 00
		<hr/>
		\$ 4,939 72
		<hr/>

## EXPENDITURES.

Paid sundry persons for labor....	\$ 502 38	
Paid Eastern Paving Co., for brick	224 00	
Paid F. A. Malorey, for edgestones	580 03	
Paid E. A. & A. T. Smith, for con- crete .....	3,633 31	
	<hr/>	\$ 4,939 72
		<hr/>

## SUNDRIES.

Balance undrawn January 1, 1900..	\$ 2,672 47	
Annual appropriation.....	7,000 00	
	<hr/>	\$ 9,672 47
Received from appropriation for paving Market Street, for teaming .....	\$ 108 00	
Received from appropriation for Willard and Humphrey Streets sewer, for labor and material	104 00	
Received from Michael Russell, for award for damages to property on Winter Street, returned to Treasury.....	100 00	
	<hr/>	\$ 312 00
		<hr/>
		\$ 9,984 47
		<hr/>



## EXPENDITURES.

To appropriation for Sewer Maintenance, for dualin.....	\$ 39 79	
To appropriation for Water Works, for water.....	334 93	
To Lowell Gas Light Co., for gas	86 20	
To Lowell Electric Light Corp., for lights.....	224 90	
To New England Telephone Co., for service.....	120 62	
Paid on account of extension of Winter Street.....	1,013 99	
Paid for sundries.....	5,468 25	
	<hr/>	\$ 7,288 68
Transferred to General Treasury Fund .....		2,695 79
		<hr/>
		<u>\$ 9,984 47</u>

## PAVING JACKSON STREET.

Appropriated from General Treasury Fund.....	\$ 3,000 00	
	<hr/>	<u>\$ 3,000 00</u>

## EXPENDITURES.

To appropriation for engineering	\$ 42 86	
To sundry persons, for labor...	740 73	
To F. A. Malorey, for paving blocks.....	1,725 31	
To G. E. Stanley, for teaming..	50 00	
	<hr/>	\$ 2,558 90
Balance to General Treasury Fund		441 10
		<hr/>
		<u>\$ 3,000 00</u>

# PAVING MAMMOTH ROAD, SUFFOLK STREET, AND GRADING AND PAVING BRIDGE STREET.

Balance undrawn, January 1, 1900	\$ 4,494 35	
	<hr/>	<u>\$ 4,494 35</u>

## EXPENDITURES.

Paid sundry persons, for labor..	\$ 2,986 14	
Paid appropriation for engineer- ing.....	6 12	
Paid appropriation for streets, labor.....	212 01	
Paid W. E. Livingston, for cement	258 78	
Paid E. A. and A. T. Smith, for concrete.....	734 72	
Paid sundry persons, for teaming	192 00	
	<hr/>	\$ 4,389 77
Balance to General Treasury Fund		104 58
		<hr/>
		<u>\$ 4,494 35</u>

## EXTENSION OF AIKEN STREET.

Balance undrawn Jan. 1, 1900.....	\$ 4,596 98	
	<hr/>	\$ 4,596 98
Received from John Callahan, over- draft.....	1 37	
	<hr/>	1 37
		<hr/>
		<u>\$ 4,598 35</u>

## EXPENDITURES.

To sundry persons for labor.....	\$ 3,602 86	
To appropriation for Engineering.	65 20	
To appropriation for Streets, horses.....	38 00	
To appropriation for Streets, sal- aries and labor .....	40 00	
To Berard & Murphy, for mason work.....	270 00	
To W. E. Livingston, lime and cement .....	42 26	
To J. W. Stewart, pipe, fittings, etc.	42 36	
To E. A. & A. T. Smith, for con- crete.....	243 88	
To P. O'Hearn, on execution of court .....	85 14	
	<hr/>	\$ 4,429 70
Balance to General Treasury Fund		168 65
		<hr/>
		\$ 4,598 35
		<hr/>

## PAINTING AIKEN STREET BRIDGE.

Annual appropriation.....	\$ 2,000 00	
Additional appropriation.....	875 00	
	<hr/>	\$ 2,875 00
Received from John Chambers over-		
draft .....	9 63	
	<hr/>	9 63
		<hr/>
		<u>\$ 2,884 63</u>

## EXPENDITURES.

Paid sundry persons for labor....	\$ 1,787 70	
Paid appropriation for Streets,		
labor .....	41 50	
Paid appropriation for Engineering	392 16	
Paid sundries.....	570 48	
	<hr/>	\$ 2,791 84
Balance to General Treasury Fund		92 79
		<hr/>
		<u>\$ 2,884 63</u>

## PAVING MARKET STREET.

Appropriation.....	\$12,000 00	
	<hr/>	
		<u>\$12,000 00</u>

## EXPENDITURES.

To sundry persons for labor.....	\$ 1,365 47	
To appropriation for Engineering.	337 63	
To appropriation for Streets, sun-		
dries, for teaming.....	108 00	
To Merrimack Paving Co. for		
3,379.37 sq. yds. asphalt paving		
@ \$2.80 per sq. yd. ....	9,462 24	
To W. E. Livingston for cement..	1 14	
To advertising .....	18 72	
To sundry persons for teaming...	596 00	
	<hr/>	\$11,889 20
Balance to General Treasury Fund		110 80
		<hr/>
		<u>\$12,000 00</u>

## EXTENSION OF LUNDBERG STREET.

Balance undrawn, January 1, 1900	\$ 2,022 80	
	<hr/>	\$ 2,022 80
		<hr/>

## EXPENDITURES.

To sundry persons, for labor....	\$ 804 97	
To appropriation for Engineering	11 25	
To appropriation for Streets, labor.....	450 35	
To appropriation for Streets, horses.....	298 00	
To R. Wilson Dix, for gravel...	71 80	
To E. P. Flanders & Co., for oil, turpentine, putty.....	4 63	
To Howe Lumber Co., for lumber	8 40	
To H. B. Shattuck & Son.....	15 40	
To sundry persons, for teaming.	358 00	
	<hr/>	\$2,022 80
		<hr/>

## PERSONAL PROPERTY.

Schedule of Personal Property belonging to  
the Street Department December 31, 1900.

2 adzes . . . . .	\$ 1 00	3 derricks . . . . .	\$ 150 00
105 blanket chests . . . . .	216 00	13 drilling spoons	3 00
100 bundles broom stuff . . .	5 00	2 dualin heaters	1 50
2 bridge augers.	1 00	20 sets double harnesses . . . . .	450 00
45 horse brushes	50 00	5 buggies and wagons . . . . .	400 00
51 curry combs.	12 75	6 driving har- nesses . . . . .	105 00
58 cards . . . . .	5 00	21 double carts.	2,100 00
2 carriage boots.	2 00	2 double jiggers	200 00
3 clocks . . . . .	3 00	1 double stone wagon . . . . .	25 00
7 coal hods . . . .	3 50	1 lumber wagon	150 00
1 pair climbing spurs . . . . .	1 25	1 single lumber wagon . . . . .	15 00
6 coal stoves . . .	20 00	12 single dump carts . . . . .	1,200 00
12 old collars . . .	24 00	4 2-wheel dump carts . . . . .	200 00
1 hand roller . . .	5 00	2 single jiggers	150 00
4 sets dump cart harnesses . . . .	80 00	6 fire pails . . . .	1 50
40 lanterns . . . .	20 00	25 feed baskets.	18 00
3 single sleds . . .	100 00	500 ft. fire hose	250 00
20 double sleds.	1,000 00	4 feed boxes . . .	20 00
3 driving sleighs	100 00		



## PERSONAL PROPERTY—CONTINUED.

58 grade stakes.	50	2 2-horse street sweepers .....	200 00
20 tons hay.....	375 00	1 old road gutter machine .....	50 00
39 draught horses	4,630 00	1 engine, boiler, stone crusher and building ..	3,000 00
5 driving horses	435 00	111 ft. edgestones	33 30
1100 bushels oats	440 00	165 ft. corner stone .....	99 00
12 tons straw...	180 00	500 ft. spruce lumber .....	9 00
1 stone drag....	5 00	57 ft. white wood	1 10
16 street signs..	16 00	215 ft. $\frac{3}{4}$ in. rubber hose .....	20 00
4 horse covers..	6 00	350 ft. $\frac{3}{4}$ in. rope	7 00
48 halters.....	48 00	3 bbls. paint.....	140 00
2 hay cutters...	15 00	1 sprinkling cart	175 00
118 snow shovels	94 40	15 gals. harness oil .....	7 50
14 stone forks..	7 00	3 steam road rollers.....	9,000 00
7 sets sighting sticks.....	3 50	1 2-horse dirt scrapper.....	25 00
3 iron squares..	2 25	8 tons coal .....	48 00
7 hay forks.....	3 50	1 steam heating boiler.....	570 00
1 hand cart.....	20 00	3,000 ft. oak plank	112 50
6 horse brooms for sweeper ..	150 00	135 pick handles.	13 50
14 snow plows..	140 00		
4 tape measures.	6 00		
25 sparrow barrels.....	25 00		
3 sparrow carts..	30 00		

## PERSONAL PROPERTY—CONTINUED.

34 stone chains...	34 00	1 keg cut nails...	2 75
14 striking hammers .....	28 00	10 tool boxes ....	100 00
1 blacksmith's shop and tools, at ledge.....	75 00	4 bbls. slacked lime .....	2 00
2 steam drills....	400 00	3 new cart bodies	100 00
500 exploders ...	15 00	1 claw hammer ..	50
8 iron pails.....	4 00	52 hand drills....	10 40
137 square pointed shovels	68 50	41 stone points..	5 00
286 ft. drill steel.	80 08	8 hand saws.....	4 00
18 iron rakes....	7 20	90 push brooms.	72 75
17 paving mauls .	25 50	18 water pails...	7 20
29 stone hammers.....	58 00	2 3 gal. oil cans..	1 00
3 frost hammers.....	6 00	12 2 gal. oil cans.	6 00
18 stone wedges .	5 00	2 5 gal. oil cans..	1 50
12 tin dippers...	1 20	3 derrick chains	3 00
50 crowbars.....	84 00	5 spreaders and chains .....	10 00
25 kegs wire spikes .....	70 00	2 manure forks..	1 00
6 trowels .....	3 00	11 gals. blue paint	11 00
286 picks.....	225 00	1 set light double harness.....	50 00
14 axes.....	7 00	1 pair long rubber boots.....	3 25
3 kegs wire nails	8 25	63 hoes.....	31 50
		9 frost wedges ..	22 00
		10 wheelbarrows	10 00

## PERSONAL PROPERTY—CONTINUED.

6 long handle shovels.....	4 50	50 lbs. horse food	1 00
2 batteries and wire.....	40 00	5 hand hammers.	2 50
5 spirit levels....	2 50	5 paving hammers	2 50
3 crosscut saws .	3 00	6000 paving blocks	228 00
10 tamping bars .	10 00	1 small scale.....	5 00
8 stone pickers..	4 00	1 platform scale .	100 00
18 chestnut posts	4 00	Harness shop, stock and tools	50 00
30 whiffletrees...	15 00	Blacksmith shop, stock and tools	400 00
34 grub axes ....	17 00	Carpenter shop, stock and tools	100 00
12 stone chisels..	1 25	1 bridge rigging, for painting...	50 00
78 rattan brooms	19 50	Office furniture..	125 00
1 row boat.....	3 00	1 portable crusher	2,000 00
80 lbs. cotton waste.....	2 40	1 heavy set falls and rope.....	9 00
26 sparrow pans.	40 00	5 ladders.....	34 00
2 bound stones ..	2 00	12 heavy single harnesses.....	240 00
4 gals. linseed oil	2 00	250 round point shovels .....	129 00
19 sign posts ....	14 25	7 tackle blocks...	7 00
3 paving ham- mers.....	1 50	1 set tackle blocks and rope	3 00
1 10 ft. spirit level	1 00	9 Georgia pine bridge timbers	218 00
1 heavy breast plate.....	5 00		
36 mane brushes	15 00		

## PERSONAL PROPERTY—CONTINUED.

3700 brick.....	29 60	1 bbl. oat meal...	4 00
7 doz. lantern globes .....	8 40	1 road gutter ma- chine .....	150 00
62 corn brooms..	9 30		<hr/> \$33,003 33

## STREETS MACADAMIZED IN 1900.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FT.	COST.
Butterfield . . . . .	Mt. Vernon and Fletcher	725	\$ 521 14
Colonial ave. . . . .	Riverside and New Moody	1200	2,882 88
Coral. . . . .	Middlesex and Branch..	775	603 27
Cheever. . . . .	Coolidge and Tucker...	479	313 22
Elm. . . . .	Linden and Central....	583	297 32
Kinsman. . . . .	Crosby and Whipple...	324	336 62
Lundberg. . . . .	Meadowcroft and O'Connell . . . . .	716	1,191 38
Moore. . . . .	Bleachery and Lawrence	2556	2,689 63
Middlesex. . . . .	Branch and Branch ....	2550	3,640 60
Meadowcroft... ..	Lundberg, 275 ft. north- erly . . . . .	275	349 61
Madison. . . . .	Gorham and Thorndike	505	372 23
New Moody... ..	Fourth ave., to Fifth ave.	384	1,023 80
Osgood. . . . .	Westford to Liberty...	593	209 75
Payton . . . . .	Plain to Brewery . . . . .	326	468 67
Riverside . . . . .	White to New Moody..	1725	1,135 76
Sherman. . . . .	High to Concord. . . . .	407	567 68
Swift. . . . .	Lawrence to Whipple..	486	128 40
Stanley. . . . .	Lakeview ave., 210 ft. easterly . . . . .	210	161 35

## STREETS MACADAMIZED IN 1900—CONTINUED.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FT.	COST.
Tilden.....	Moody to railroad track	327	\$ 401 40
Thirteenth.....	[top dressed].....	735	86 92
Wentworth ave.	Andover and Hovey....	2025	3,438 14
West Sixth....	Bridge to Jewett.....	520	286 28
Wannalancit....	[top dressed].....	450	407 00
		18,876	\$21,513 05



## STREETS GRADED IN 1900.

STREETS.	LENGTH IN FT.	COST.
Anderson .....	348	\$ 14 12
Austin .....	263	21 75
Blossom .....	417	320 79
Blodgett .....	585	27 50
Boynton.....	1,326	139 00
Bridge.....	397	40 00
Brooks.....	140	56 80
Congress .....	80	26 46
Crawford .....	350	44 37
Canton.....	100	15 75
Chelmsford .....	900	241 34
Claire.....	175	157 38
Dane.....	377	57 82
Dutton.....	408	155 50
East Merrimack.....	595	157 69
Fifth Ave. ....	1,086	425 80
Fort Hill Ave.....	948	44 50
Foster .....	100	49 50
Ford .....	1,425	134 75
Floyd.....	200	81 25

## STREETS GRADED IN 1900—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Grove.....	409	\$ 132 37
Gershom Ave.....	240	42 98
Grand .....	270	77 75
Houghton.....	190	28 35
Hoyt.....	400	189 50
Harrison.....	200	60 00
Hanks .....	825	212 00
Hoyt Ave.....	463	30 56
Hanover .....	600	49 75
Keene .....	650	188 86
Lundberg.....	900	373 78
Lincoln .....	1,025	380 42
Lawrence.....	645	85 25
Laurel.....	554	204 26
Lawson.....	295	191 65
Ludlam.....	238	16 00
Mt. Hope .....	604	59 31
Midland.....	810	202 30
Moore .....	125	69 60
McKinley Ave.....	336	39 25

## STREETS GRADED IN 1900—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Manchester .....	593	\$ 468 65
Methuen .....	725	515 20
Main .....	1,088	572 95
Meadowcroft .....	1,114	521 89
O'Connell .....	200	104 70
Old Boston Road .....	850	550 10
Old Meadow Road .....	450	84 25
Plain .....	2,681	364 28
Pond .....	150	84 50
Perry .....	790	318 00
Roberts .....	400	120 13
Riverside .....	1,242	237 18
Rogers .....	1,220	109 75
Ralph .....	173	133 14
Race .....	640	40 50
Richardson .....	225	30 00
South Highland .....	210	10 00
Spencer .....	534	215 26
Tanner .....	2,376	1,449 82
Totman .....	720	182 52

## STREETS GRADED IN 1900—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Tenth .....	392	\$ 108 70
Varnum Ave. ....	3,514	1,461 05
Victoria .....	700	152 75
Ware .....	652	395 25
Wentworth Ave. ....	819	584 86
Waite.....	115	38 69
Whiting .....	215	16 00
Winter.....	400	55 00
Walker .....	515	285 85
	<hr/> 43,712	<hr/> \$14,556 96

## STREETS LAID OUT AND ACCEPTED IN 1900.

STREETS.	LOCATION.	LENGTH IN FEET.
Aiken ave.....	From Cumberland road to Hildreth street.....	884.00
Arch.....	From Middlesex street to portion formerly laid out and accepted.....	217.50
Billerica.....	From Lawrence street to Tewksbury line.....	361.90
Clitheroe.....	From Nesmith street to Wyman street.....	701.10
O'Connell.....	From Fay street to Lundberg street.....	200.00
Pihl.....	From Fay street to Lundberg street.....	200.00
Sanders ave....	From Pine street southerly...	1100.00
Victoria.....	From Stevens street to portion formerly accepted.....	462.20
		4126.70

Number of miles of accepted streets, Jan. 1, 1900... 122.76

Number of miles of streets accepted in 1900.... .78

Number of miles of accepted streets, Jan. 1, 1901... 123.54

Note—A curve has been laid out at the junction of the northerly line of Third street with the westerly line of Beech street, the expense of the widening being paid by the Lowell & Suburban Street Railway Co.

Lawrence street has been widened from Billerica street to the Tewksbury line, a distance of 229 feet.

Tenth street has been widened and straightened and the grade re-established from Myrtle street to the premises of Thomas Fay, a distance of 2137 feet.



## NEW SIDEWALKS.

STREETS.	LOCATION.	LIN. FT.			SQ. YDS.	
		CORNER STONE.	EDGE- STONE.		CON- CRETE.	
*Aiken.....	Both sides, Ford st. to Merrimack st.....	61.2	753.3		609.7	
Beech.....	East side, from Tenth st., southerly.....				336.3	
Burns.....	West side, from Madison st. to So. Highland st..	17.3	199.9			
Burgess.....	South side, from Hastings st., easterly.....		90.2			
Colonial ave.....	West side, Moody st. to Riverside st.....	42.3	1092.7			
Colonial ave.....	East side, at Moody st.....		25.0			
Fifth ave.....	Both sides, Mt. Grove st. to Moody st.....	181.1	2327.8			
Ford.....	South side, James st. to Aiken st.....		251.9		169.1	
Hastings.....	East side, Shaw st. to Liberty st.....	18.6	629.1			
*Jackson.....	South side, Revere st. to King st.....	10.2	358.8			

\*Unfinished.

## NEW SIDEWALKS—CONTINUED.

STREETS.	LOCATION.	LIN. FT. CORNER STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CON- CRETE.
Jackson.....	North side, Revere st. to King st.....		259.4	
Lawrence.....	South side from So. Whipple st. to easterly line premises Jos. Jennings, et al.....			426.8
Liberty.....	North side, Lane st. to School st.....	9.5	240.1	182.1
Locke.....	South side, Gorham st. to South st.....	17.9	71.8	
*Ludlam.....	Both sides, Hildreth st. to Bridge st.....	9.0	597.0	
Mammoth road ..	North side, from Fourth ave., westerly.....			173.4
Market.....	Both sides, from Central st., westerly 722 ft....	43.1	1011.3	1009.5
Rock.....	North side, Willie st. to School st.....		828.3	
School.....	East side, Middlesex st. to bridge over Paw- tucket canal.....	37.5	402.3	385.8
School.....	East side, Westford st. to Lawson st.....			

\*Unfinished.

## SIDEWALKS.

## RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED.

STREETS.	LOCATION.	WHEN PASSED.	LIN. FT. EDGESTONE TO BE LAID.
Aiken ave.....	Both sides, edgestones and cinders, from Cumberland rd. to Hildreth st.....	1900	1493.97
Aiken.....	Both sides, Ford st. to Merrimack st., edgestones laid, concrete not completed.....	1900	
Bassett.....	West side, Whipple st. to Hudson st., edgestones and cinders.....	1900	278.00
Bellevue.....	West side, from Thayer st., northerly, edgestones and cinders.....	1899	310.00
Cambridge.....	Both sides, Chelmsford st. to Hale st., edgestones and concrete.....	1899	601.40
Coburn .....	East side, West 6th st. to Richardson st., edgestones and concrete.....	1900	525.00
Ellsworth.....	Both sides, Gorham st. to Dix st., edgestones and concrete.....	1900	743.30

## SIDEWALKS.

RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED—Continued.

STREETS.	LOCATION.	WHEN PASSED.	LIN. FT. EDGESTONE TO BE LAID.
Ennell .....	North side, Lakeview ave. to Cumberland rd., edge- stones and cinders.....	1899	895.10
Jackson .....	South side, Revere st. to King st., edgestones and concrete, concrete not laid.....		
June .....	East side, from 12th st., northerly 378.3 ft., concrete	1900	
Lawrence .....	East side, Canal bridge to Faulkner st., concrete...	1900	
Livingston .....	North side, from Gorham st., easterly 121 ft., edge- stones and concrete.....	1898	121.00
Ludlam .....	Both sides, Hildreth st. to Bridge st., edgestones and cinders, edgestones partially laid.....	1900	2196.00
McKinley ave...	North side, in front premises Carl Grundler and Edward R. Grant, edgestones and cinders.....	1899	100.00
Moody .....	Both sides, 4th ave. to City line, edgestones and cinders.....	1897	3271.10

## SIDEWALKS.

## RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED.

STREETS.	LOCATION.	WHEN PASSED.	LIN. FT. EDGESTONE TO BE LAID.
Moody.....	North side, 4th ave. to west side School House lot, edgestones and cinders.....	1900	405.10
Moody.....	South side, 4th ave. to 5th ave., edgestones and cinders.....	1900	300 00
Pawtucket.....	Both sides, bridge over Northern Canal to Perkins st., edgestones and concrete.....	1898	684.00
Robert.....	East side, 5th ave. to 6th ave., edgestones and cinders.....	1900	200.00
St. James.....	Both sides, from Crowley st., westerly 300.67 ft., edgestones and cinders.....	1898	579.34
Sherman.....	South side, in front premises Patrick Finnerty, edge- stones and cinders.....	1899	80.00
Sixth ave.....	Southeast side, Mt. Grove st. to Mt. Hope st., edge- stones and cinders.....	1900	620.00

SIDEWALKS.

RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED—Continued.

STREETS.	LOCATION.	WHEN PASSED.	LIN. FT. EDGESTONE TO BE LAID.
Suffolk.....	Southeast side, Moody st. to bridge over Northern Canal, edgestones and concrete.....	1898	386.00
Sutherland.....	Both sides, Hildreth st. to Barker ave., edgestones and cinders.....	1900	1615.40
			15,404.71



## CONCRETE SIDEWALKS REPAIRED IN 1900.

STREETS.	LOCATION.	SQ. YDS.
Andrews .....	South side, at Agawam st.....	25.3
Beech .....	West side, at Third st.....	17.3
Broadway .....	North side, at School st.....	7.6
Butterfield.....	Both sides.....	24.2
Carlton.....	West side.....	8.7
Chambers .....	North side.....	47.8
Church.....	South side, at George st.....	28.8
Cross .....	South side .....	13.1
Eleventh .....	South side .....	4.9
Ford.....	South side, at No. 94.....	19.2
Ford.....	South side, at No. 124.....	10.8
Hastings .....	West side.....	11.1
High.....	East side, at No. 280.....	16.2
Linden.....	East side, between Union and Elm sts.....	138.6
Merrimack ....	South side, at No. 822.....	48.4
Middlesex.....	Both sides, between Branch and Walker sts.....	649.3
Middlesex.....	North side.....	9.6
Moody .....	North side, from Aiken st., westerly	127.2

CONCRETE SIDEWALKS REPAIRED IN 1900.—  
CONTINUED.

STREETS.	LOCATION.	SQ. YDS.
Mt. Vernon...	West side, at No. 185.....	55.1
Myrtle.....	East side.....	9.0
Nesmith.....	West side, at No. 49.....	70.1
Palmer.....	East side.....	53.4
Palmer.....	West side.....	4.0
Queen.....	West side.....	8.8
Read.....	East side.....	8.9
Rogers.....	South side, between Merrill st. and Concord River.....	39.4
Rogers.....	North side, between Merrill st. and Concord River.....	43.6
Seventh.....	South side, from Bridge st., easterly	45.7
Sixth.....	South side.....	307.4
Smith ave.....	West side.....	14.9
South Whipple	West side.....	9.3
Stevens.....	West side, between Westford and Princeton sts.....	4.5
Suffolk.....	West side, at Stanton pl.....	4.7
Walker.....	West side, between Broadway and Pawtucket sts.....	153.4
Westford.....	North side, at Smith st.....	6.2

## CONCRETE SIDEWALKS TOP DRESSED IN 1900.

STREETS.	LOCATION.	SQ. YDS.
Abbott.....	South side, from Lawrence st. west- erly.....	4.2
Beacon.....	East side.....	35.0
Beech.....	West side, Fifth st. to Sixth st..	192.2
Beech.....	West side, at Third st.....	22.0
Bridge.....	East side, at No. 725 .....	49.9
Bridge.....	West side, between Amory st. and Central Bridge.....	283.3
Butterfield.....	South side, at Mt. Vernon st....	59.6
Butterfield.....	North side, at Mt. Vernon st....	109.9
Central.....	East side, between Hurd and William sts.....	132.9
Chambers.....	North side.....	47.8
Columbus ave..	North side.....	166.1
Church.....	North side, between Warren and George sts.....	305.3
Church.....	South Side at No. 203.....	11.1
Church.....	South side, between Central and Lawrence sts.....	393.3
East Pine.....	South side at Nichols st.....	68.1
Fenwick.....	South side, at Suffolk st.....	57.8
Fenwick.....	North side, at Suffolk st.....	42.0

CONCRETE SIDEWALKS TOP DRESSED IN 1900.—  
CONTINUED.

STREETS.	LOCATION.	SQ. YDS.
Fifth.....	South side, at No. 10 and No. 19	38.5
Fifth.....	North side.....	27.9
Fletcher.....	West side, at No. 452.....	55.6
George.....	East side, at Church st.....	52.8
Gorham.....	West side, from No. 571 to 607..	151.5
Gorham.....	East side, from Davis sq. south- erly.....	202.3
Grove.....	South side, at Loring st.....	10.2
Kinsman.....	West side, at Chambers st.....	33.7
Lawrence.....	West side, between Andrews and Abbott sts.....	661.7
Lawrence.....	East side, between Rogers st. and Wamesit Canal.....	596.5
Linden.....	East side, between Union and Elm sts.....	250.4
Loring.....	East side.....	230.8
Loring.....	West side.....	242.8
Merrimack....	South side, at No. 822.....	49.5
Middlesex.....	Both sides, between Branch and Walker sts.....	924.9
Moody.....	North side, from Aiken st. westerly	229.7

## CONCRETE SIDEWALKS TOP DRESSED IN 1900.—

CONTINUED.

STREETS.	LOCATION.	SQ. YDS.
Mt. Vernon....	East side, at Butterfield st.....	77.4
Nesmith.....	West side, at No. 49.....	70.1
Nesmith.....	West side, at Oak st.....	22.3
Nichols.....	East side, at East Pine st.....	14.9
Oak.....	South side, at Nesmith st.....	87.3
Second.....	North side.....	27.5
School.....	West side, from Sawtelle place southerly.....	116.5
Seventh.....	South side, from Bridge st. east- erly.....	45.7
Sixth.....	South side.....	160.6
Sixth.....	North side, east of Fremont st..	70.8
Smith ave.....	West side.....	19.9
Stevens.....	West side.....	29.0
Suffolk.....	West side, at Fenwick st.....	62.9
Union.....	South side, from Linden st. east- erly.....	14.7
Walker.....	West side, between Broadway and Pawtucket st.....	138.3
Wilder.....	East side, at No. 210.....	35.7

BRICK SIDEWALK LAID IN 1900.

STREETS.	LOCATION.	SQ. YDS.
Tilden .....	West side, from Moody st. to railroad .....	322.6



## RELAYING BRICK SIDEWALKS.

STREET.	SQ. YDS.	COST.
Aiken Street Extension.....	7	\$ 7 00
Adams.....	221	34 00
Chapel.....	5	7 82
High.....	26	7 25
Gorham.....	91	52 26
Salem.....	75	17 50
Tremont.....	56	25 50
	<hr/> 481	<hr/> \$151 33

## CINDER SIDEWALKS BUILT IN 1900.

STREETS.	LENGTH IN FT.	COST.
Aiken avenue.....	816	\$ 53 23
Aborn street.....	730	51 94
Aiken street.....	190	10 38
Billings street.....	750	23 50
Bridge street.....	600	41 69
Burns street.....	497	23 50
Bowers street.....	500	40 48
Bye street.....	50	2 87
Broadway street.....	561	23 57
Barclay street.....	870	25 42
Burgess street.....	500	20 25
Blodgett street.....	423	25 03
Cambridge street.....	354	12 94
Chelmsford street.....	674	51 81
Cosgrove street.....	2,400	24 88
Cedar street.....	390	7 57
Colonial avenue.....	2,549	66 32
Crescent street.....	622	30 57
Clark street.....	160	17 25

## CINDER SIDEWALKS BUILT IN 1900—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Dunfey street.....	267	\$ 23 00
Davis st.....	125	4 75
Davenport street.....	124	7 50
Ellsworth street.....	335	18 76
Eaton street.....	30	2 24
Elm street.....	36	2 07
Emery street.....	1,067	55 09
East Merrimack street.....	860	65 63
Fort Hill avenue.....	150	11 25
Fifth avenue.....	2,405	151 88
Ford street.....	360	20 57
Fay street.....	1,500	90 64
Gorham street.....	750	125 13
Grand street.....	60	6 55
Hale street.....	459	19 31
Howard street.....	60	6 46
Hildreth street.....	3,755	151 81
High street.....	235	5 01
Hanks street.....	1,000	33 01

## CINDER SIDEWALKS BUILT IN 1900—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Hastings street.....	586	\$ 31 82
Inland street.....	215	16 53
Keene street.....	434	12 18
Lane street.....	231	10 18
Lincoln street.....	535	30 98
Liberty street.....	715	58 01
Meadowcroft street.....	458	25 15
Mammoth road.....	767	86 21
Mt. Hope street.....	1,860	123 00
McKinley avenue.....	228	26 09
Midland street.....	171	11 28
Middlesex street.....	100	8 60
Mt. Grove street.....	129	9 25
New Moody street.....	50	8 11
Nineteenth street.....	175	30 19
Old Meadow road.....	633	49 57
Oliver street.....	105	11 19
Pine street.....	570	27 18
Plain .....	50	3 71

## CINDER SIDEWALKS BUILT IN 1900—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Parkview avenue.....	220	\$ 20 75
Pleasant street.....	75	3 25
Pawtucket street.....	120	6 50
Parker street.....	630	48 17
Riverside street.....	324	22 00
Roberts street.....	400	25 42
Rolfe street.....	753	22 23
Rock street.....	600	31 07
South Highland street.....	215	8 32
Sixth avenue.....	2,189	172 23
Seventh avenue.....	899	56 30
Stevens street.....	273	25 02
Smith street.....	328	19 31
South Wilder street.....	165	8 81
Sherman street.....	50	3 25
Standish street.....	45	2 38
Stackpole street.....	138	13 62
Thorndike street.....	180	10 62
Third avenue.....	1,679	125 00

## CINDER SIDEWALKS BUILT IN 1900—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Tilden street.....	300	\$ 3 75
Victoria street.....	825	77 85
Varnum avenue.....	787	59 44
Varney street.....	356	17 25
West Sixth Street.....	850	56 37
Wannalancit street.....	381	38 74
Wilder street.....	2,345	86 54
Walker street.....	90	4 67
Woodward avenue.....	150	3 88
Warwick street.....	885	30 50
	51,478	\$2,936 33



## PAVING GUTTERS.

STREETS.	LENGTH IN FT.	COST.
Beacon .....	50	\$ 6 39
Beech .....	60	4 19
Colonial avenue.....	2,172	348 96
Cabot.....	111	15 38
Canton .....	684	85 25
East Merrimack.....	449	64 84
Howe.....	190	25 03
Linden .....	378	70 47
Lundberg .....	946	178 63
Moody.....	207	20 26
Meadowcroft.....	378	33 75
Moore .....	810	71 39
Madison .....	270	27 25
Nesmith .....	97	11 71
New Moody .....	1,225	108 57
Park .....	360	62 19
Riverside.....	735	105 61
Rogers .....	330	19 25
School.....	850	129 01

PAVING GUTTERS.—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Simpson .....	130	\$ 13 25
Tilden .....	309	24 50
Tanner .....	258	32 75
Third .....	50	6 50
Tenth .....	156	48 01
Wentworth Avenue .....	2,050	216 38
Warwick .....	265	66 39
	<hr/> 13,520	<hr/> \$1,795 91

## NEW GRANITE CROSSINGS LAID IN 1900.

STREETS.	LOCATION.	LENGTH IN FT.	COST OF MATERIAL.	COST OF LABOR.	TOTAL COST.
Auburn .....	At Linden street.....	40	\$11 00	\$18 38	\$29 38
Bourne .....	At Andrews street.....	54	14 85	26 51	41 36
Broadway .....	At Schaffer street.....	56	15 40	28 25	43 65
Bridge .....	At Boynton street.....	32	8 80	27 44	36 24
Crowley .....	At St. James street.....	56	15 40	18 75	34 15
Crowley .....	At St. James street.....	76	20 90	36 40	57 30
Concord .....	At Sherman street.....	58	15 95	16 82	32 77
Ford .....	At Aiken street.....	76	20 90	17 25	38 15
Grand .....	At Hale street.....	56	15 40	13 25	28 65
Gorham .....	At Blossom street.....	56	15 40	11 02	26 42
Hildreth .....	At Lilley avenue.....	74	20 35	18 85	39 20

## NEW GRANITE CROSSINGS LAID IN 1900—CONTINUED.

STREETS.	LOCATION.	LENGTH IN FT.	COST OF MATERIAL.	COST OF LABOR.	TOTAL COST.
Jackson .....	At Revere street.....	50	\$13 75	\$10 62	\$24 37
Jackson .....	At King street.....	48	13 20	15 65	28 85
Moody .....	At Aiken street.....	74	20 35	14 75	35 10
Merrimack.....	At Aiken street.....	108	29 70	17 25	46 95
Meadowcroft.....	At Walsh's Mills.....	56	15 40	10 00	25 40
Middlesex .....	At School street.....	72	19 80	20 19	39 99
Moody .....	At Aiken street.....	78	21 45	30 95	52 40
New Moody .....	At Colonial avenue.....	100	27 50	21 75	49 25
New Moody .....	At Fourth avenue.....	94	26 85	19 00	45 85
New Moody .....	At Fifth avenue.....	78	21 45	17 63	39 08
Pawtucket.....	At Merrimack street.....	150	41 25	27 50	68 75

# NEW GRANITE CROSSINGS LAID IN 1900—CONTINUED.

SUPERINTENDENT OF STREETS.

51

STREETS.	LOCATION.	LENGTH IN FT.	COST OF MATERIAL.	COST OF LABOR.	TOTAL COST.
School .....	At Paine street.....	56	\$15 40	\$18 25	\$33 65
School .....	At Woodbury street.....	48	13 20	18 25	31 45
School .....	At Lawson street.....	78	21 45	30 25	51 70
Stevens .....	At Pine street.....	78	21 45	27 06	48 51
Waverly ave .....	At Hoyt avenue.....	48	13 20	11 62	24 82
		—	—	—	—
		509	\$509 75	\$543 64	\$1,053 39

## GRANITE CROSSINGS RELAID IN 1900.

STREETS.	LOCATION.	LENGTH IN FT.	COST.
Broadway.....	At Card Company .....	72	30 13
Central .....	At American House ....	72	39 94
Central .....	At Market street .....	72	24 88
Hudson .....	At Bassett street .....	72	31 00
Jackson .....	At Revere street .....	36	18 62
Moody .....	At Race street .....	36	11 94
Moody .....	At Hanover street .....	36	18 85
Moody .....	At Tremont street .....	36	16 59
Moody .....	At Tilden street .....	36	12 13
Market .....	At Suffolk street .....	36	12 76
Market .....	At Palmer street .....	28	21 25
Market .....	At Police station .....	28	67 32
Moore .....	At Bleachery street ....	71	19 50
Tenth .....	At Beech street .....	71	28 17
		702	\$353 08



## CONCRETE CROSSINGS LAID IN 1900.

STREETS.	LOCATION.	SQ. YDS.
Lawrence...	At Randolph street .....	25.5
Linden .....	At Court avenue .....	10.3
Linden .....	At Cherry street.....	10.8
Linden .....	At Court street .....	28.2
Moody.....	At Austin street .....	79.9

## CONCRETE CROSSINGS REPAIRED IN 1900.

STREETS.	LOCATION.	SQ YDS.
Grove .....	At Dover street.....	32.2
Stevens.....	At Nicolette St.....	37.8
Thorndike..	At Highland street.....	51.3

CONCRETE PAVEMENT REPAIRED IN 1900.

STREETS.	LOCATION.	SQ YDS.
Mammoth rd .....		87.1
Pawtucket.. ..		164.3

ASPHALT PAVEMENT LAID IN 1900.

STREETS.	LOCATION.	SQ. YDS.
Market . . . . .	From Central street, westerly 722 ft.	3,379.4

## GRANITE PAVEMENT LAID IN 1900.

STREETS.	LOCATION.	SQ. YDS.
Bridge .....	East side, between 13th and Billings streets.....	4,737.7
Bridge .....	West side, between 13th and 18th streets .....	
Jackson.....	From Revere street to King street	1,122.8

## CONCRETE BICYCLE PATHS LAID IN 1900.

STREETS.	LOCATION.	SQ. YDS.
Bridge .....	East side, from 13th street, to Billings street.....	556.6
Bridge .....	West side, from Hampshire street, to 18th street.....	493.0

CONCRETE BICYCLE PATHS REPAIRED IN 1900.

STREETS.	LOCATION.	SQ. YDS.
Bridge . . . . .	East side, between Amory street and Central Bridge . . . . .	98.0
Bridge . . . . .	East side . . . . .	22 3

## EDGESTONES RESET IN 1900.

STREETS.	LENGTH IN FT.	COST.
Aiken avenue .....	290	\$ 18 69
Butterfield .....	31	3 63
Beacon .....	50	2 38
Beech .....	60	4 67
Cross .....	150	13 00
Chapel .....	23	4 75
Charles .....	3.6	2 63
Church .....	100	10 35
Dutton .....	279	13 00
Exeter .....	318	25 10
Fletcher .....	116	5 88
Fenwick .....	60	2 75
High .....	30	2 41
Jackson .....	113	19 88
Kinsman .....	332	32 63
Lawrence .....	25	7 38
Linden .....	378	49 39
Merrimack .....	153	25 25
Moody .....	164	41 38

## EDGESTONES RESET IN 1900.—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
Middlesex .....	2,665	\$ 222 84
Mt. Vernon .....	136	11 99
Merrill .....	100	6 35
Middle .....	25	10 00
Nesmith .....	67	7 02
Palmer .....	80	4 75
Rogers .....	231	22 50
Sixth avenue .....	25	1 01
School .....	126	16 23
Smith avenue .....	85	11 37
Summer .....	148	13 44
Tilden .....	310	43 00
Walnut .....	25	2 41
Woodward avenue .....	64	6 50
Wentworth avenue .....	125	7 38
Worthen .....	100	13 00
	<hr/>	<hr/>
	6,987 6	\$684 94



## STREETS RESURFACED AND REPAIRED.

STREETS.	COST.	STREETS.	COST.
Aiken ave .....	\$110 82	Common .....	\$ 89
Ardell .....	23 82	Chelmsford .....	6 32
Auburn .....	2 38	Crawford .....	23 21
Appleton .....	1 10	Canton .....	1 18
Adams .....	14 38	Colonial ave ....	36 31
Andover .....	2 25	Cosgrove .....	2 44
A .....	8 00	Carlisle .....	72
Broadway .....	183 32	Chapel .....	4 88
Bridge .....	52 76	Church .....	7 25
Bourne .....	85	Chestnut .....	66
Beacon .....	45 64	Centre .....	44
Barrington .....	5 76	Cambridge .....	4 53
Bowden .....	1 08	Charles .....	43
Barker ave .....	1 49	Concord .....	66
Bartlett .....	88	Carleton .....	2 73
Batchelder pl...	10 88	Coburn .....	2 88
Branch .....	5 50	Congress .....	2 12
Bye .....	16 38	Dalton .....	2 94
Central .....	24 90	Durant .....	6 51
Cross .....	4 11	Dane .....	5 50

STREETS RESURFACED AND REPAIRED—  
CONTINUED.

STREETS.	COST.	STREETS.	COST.
Dummer.....	\$ 13 39	George .....	\$ 44
Davidson .....	3 13	Grand .....	19 50
Dutton .....	11 09	Humphrey.....	60 52
Everett.....	3 69	Hudson.....	2 98
Eaton .....	3 21	High .....	3 32
East Merrimack	39 72	Hanover .....	3 54
Eleventh.....	19 54	Hurd .....	88
Ennell.....	53 95	Hanover .....	1 97
Elm .....	4 82	Ina .....	56 88
Eighteenth .....	16 37	Kirk .....	63
Fifth ave.....	140 89	Lincoln.....	21 32
Fairmount.....	6 08	London .....	6 42
Ford .....	6 55	Lakeview ave...	17 82
Floyd .....	2 20	Ludlam.....	16 53
Fayette.....	1 76	Lawrence.....	3 64
Fletcher.....	10 47	Lewis .....	44
Fifth .....	3 50	Lee .....	44
First .....	19 00	Lagrange.....	88
Gorham .....	25 64	Middlesex .....	169 25
Gibson .....	1 18	Merrimack .....	63 64

STREETS RESURFACED AND REPAIRED—  
CONTINUED.

STREETS.	COST.	STREETS.	COST.
Mammoth rd ...	\$ 27 18	Riverside .....	\$ 32 93
Moody .....	21 42	Read .....	15 50
Mt. Hope .....	31 33	Ralph .....	6 50
Mt. Grove .....	17 75	Stevens .....	89
Meadowcroft....	1 68	Sycamore .....	5 33
Manchester .....	3 21	Sayles .....	12 44
Methuen .....	52 00	South Highland.	89
Midland .....	22 37	Smith ave .....	3 38
Market .....	26 44	Sixth .....	20 72
Moore .....	7 17	Stackpole .....	67 75
Mead .....	2 20	Salem .....	1 32
Mt. Vernon ....	3 26	South .....	1 32
New Moody ....	40 19	Suffolk .....	11 06
Otis .....	1 27	South Whipple..	13 28
Old Meadow rd.	48 50	Swift .....	13 28
Pleasant .....	3 69	Thorndike .....	9 34
Pawtucket. ....	26 72	Tilden .....	28 70
Palmer .....	5 00	Tanner .....	153 15
Powell .....	1 06	Totman .....	36 12
Rogers .....	21 45	Tenth .....	66 77

STREETS RESURFACED AND REPAIRED—  
CONTINUED.

STREETS.	COST.	STREETS.	COST.
Third .....	\$ 6 51	Webber .....	44 50
Third ave .....	8 44	Whipple .....	1 32
Tremont .....	3 05	Winter .....	59
Union .....	3 69	Willie .....	88
Varnum ave....	110 71	Whiting .....	64 29
Varnum .....	46 54	Wachusett .....	84
Vernon .....	26 04	Willow .....	44
White .....	32 25	William .....	66
West Sixth....	23 78	Waterford .....	9 75
Wilder .....	6 69	Westford .....	3 88
Walker .....	7 17	Wentworth ave .	13 95
Whitney ave....	54 31	West Sixth....	11 25
Wannalancit ....	17 25	Total .....	<u>\$2,829 46</u>

## COST OF CLEANING STREETS IN 1900.

MONTH.	UNPAVED STREETS.	PAVED STREETS.
February .....	\$ 29 35	\$1,003 69
March .....	169 32	1,214 82 .
April .....	2,581 65	1,125 87
May .....	764 61	1,199 91
June .....	830 18	1,243 75
July .....	819 50	1,194 00
August .....	716 23	946 57
September .....	764 85	597 00
October .....	1,509 94	1,147 34
November .....	1,027 55	970 57
December .....	139 07	1,168 98
	<hr/>	<hr/>
	\$9,352 25	\$11,812 50

## STREETS REPAVED IN 1900.

STREETS.	LOCATION.	SQ. YDS.	COST.
Chelmsford.	Between Thorndike and Westford streets .....	164	\$ 35 27
Dutton .....	Between Fletcher and Market streets .....	1,354	328 33
Gorham ....	Between Appleton and Charles streets .....	77	21 37
Market.....	Between Dutton and Palmer streets .....	574	123 20
Palmer.....	Between Middle and Market streets .....	230	75 51
School.....	Between Pawtucket and bridge	1,506	169 50
		3,905	\$753 18



## BRIDGES REPAIRED IN 1900.

STREETS.	WORK DONE.	MATERIAL.	LABOR.	TOTAL COST.
Aiken . . . . .	Replanked . . . .	\$3,363 76	\$777 92	\$4,141 68
Boulevard . . .	Repaired . . . . .		22	22
Cabot . . . . .	Repaired . . . . .		11 25	11 25
Cambridge . .	Repaired . . . . .		1 50	1 50
Dutton . . . . .	Repaired . . . . .		17 31	17 31
Lawrence . . .	Repaired . . . . .		28 95	28 95
Lincoln . . . .	Replanked . . . .	363 00	37 14	400 14
Market . . . .	Replanked . . . .	109 68	213 33	323 01
Pawtucket . .	Repaired . . . . .		7 25	7 25
Plain . . . . .	Repaired . . . . .		1 50	1 50
Merrimack . .	Repaired . . . . .		3 00	3 00
School . . . . .	Repaired . . . . .		12 20	12 20
Moody . . . . .	Replanked . . . .	577 12	206 63	783 75
Worthen . . . .	Repaired . . . . .		4 37	4 37
		<hr/>	<hr/>	<hr/>
		\$4,413 56	\$1,322 57	\$5,736 13

## NEW EDGESTONES LAID IN 1900

STREETS.	LOCATION.	LIN. FT. LAID.	COST OF MATERIAL.	LABOR.	TOTAL COST.
Aiken.....	Ford street to Merrimack street.....	814.5	\$183 66	\$ 78 70	\$ 262 36
Burns.....	Madison street to So. Highland street.	217.2	56 87	50 94	107 81
Burgess.....	Hastings street, easterly .....	90.2	21 87	7 11	28 98
Colonial ave...	Moody street to Riverside street.....	1,160.	310 18	222 77	532 95
Fifth ave.....	Mt. Grove street to Moody street....	2,508.9	752 71	268 25	1,020 96
Ford.....	James street to Aiken street.....	251.9	61 08	37 20	98 28
Hastings.....	Shaw street to Liberty street.....	647.7	161 52	71 09	232 61
Jackson .....	Revere street to King street.....	628.4	214 92	86 19	301 11
Liberty .....	Lane street to School street.....	249.6	62 82	23 94	86 76
Locke.....	Gorham street to South street.....	89.7	26 09	21 50	47 59
Ludlam .....	Hildreth street to Bridge street.....	606.	149 15	50 66	199 81

## NEW EDGESTONES LAID IN 1900—CONTINUED.

STREETS.	LOCATION.	LIN. FT. LAID.	COST OF MATERIAL.	LABOR.	TOTAL COST.
Market .....	Central street, westerly .....	1,054.4	\$ 399 73	\$ 223 68	\$ 623 41
Rock .....	Willie street to School street .....	828.3	339 60	66 42	406 02
School .....	Middlesex street to canal .....	439.8	115 73	72 51	188 24
School .....	Westford street to Lawson street....	181.2	46 43	19 82	66 25
		—	—	—	—
		9,767.8	\$2,902 36	\$1,300 78	\$4,203 14

## WALLS RELAID IN 1900.

STREETS.	COST.	LENGTH IN FT.
Varnum avenue.....	\$ 836 26	1,305
Tenth .....	360 59	275
	<hr/>	<hr/>
	\$1,196 85	1,580

## SIDEWALKS LOWERED IN 1900.

STREETS.	COST.
Adams .....	\$47 50
Burns .....	6 65
Colonial avenue .....	30 50
Exeter .....	10 00
Fifth avenue .....	33 00
Fletcher .....	3 75
Hastings .....	26 58
Jackson .....	5 62
Ludlam .....	17 49
Middle .....	15 00
School .....	21 00
	<hr/>
	\$217 09

WATERING STREETS, LABOR.

Annual Appropriation.....	\$5,500 00	
Additional Appropriation .....	600 00	
	<hr/>	\$6,100 00
Received from Appropriation for Streets, labor.....	\$ 112 00	
	<hr/>	112 00
		<hr/>
		<u>\$6,212 00</u>

EXPENDITURES.

Paid Sundry persons, for labor .	\$6,104 65	
	<hr/>	\$6,104 65
Balance to General Treasury Fund		107 35
		<hr/>
		<u>\$6,212 00</u>

WATERING STREETS, SUNDRIES.

Annual Appropriation.....	\$4,000 00	
Additional Appropriation.....	5,500 00	
	<hr/>	\$9,500 00
		<hr/>

EXPENDITURES.

Paid for Sundries .....	\$4,679 50	
Balance to General Treasury Fund	4,820 50	
	<hr/>	\$9,500 00
		<hr/>



## PERSONAL PROPERTY.

Schedule of Personal Property belonging to  
the Street Watering Department Dec. 31, 1900:

27 horses .....	\$2,460 00
17 sets double harnesses .....	382 50
28 halters .....	28 00
25 collars .....	50 00
12 sprinkling carts.....	2,400 00
2 monkey wrenches .....	1 50
6 neck yokes.....	6 00
5 double carts .....	500 00
20 feed baskets .....	10 00
1 pair tongs.....	2 00
1 8-ft. step ladder.....	1 25
37 horse brushes.....	37 00
32 curry combs .....	8 00
30 cards .....	3 00
1 large Stillson wrench.....	2 00
5 pails .....	1 25
1 feed truck .....	5 00
1 cart jack.....	2 00
4 shut off wrenches .....	4 00
1 4-qt. measure .....	50

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\$5,904 00

## PERSONAL PROPERTY.

Schedule of Personal Property belonging to  
the Boulevard Dec. 31, 1900:

1 sprinkler cart .....	\$ 225 00
30 grass signs .....	7 00
8 stone forks.....	2 00
6 iron rakes.....	2 40
6 hoes .....	3 00
7 lawn mowers.....	14 00
3 scythe snaths .....	1 00
5 sickles .....	2 50
2 sod cutters.....	1 25
2 manure forks .....	1 00
5 brooms.....	75
1 sand screen .....	2 00
1 15-ft. spirit level.....	1 50
1 pair edging shears .....	5 00
1 grinding stone .....	5 00
1 storehouse .....	250 00
1 wheelbarrow .....	1 25
2 wooden mallets.....	1 00
3 hand sprinklers .....	3 00
1 wooden maul.....	50

## PERSONAL PROPERTY—CONTINUED.

2 whiffletrees .....	\$ 1 50
1 tree trimmer.....	2 00
1 round point shovel .....	50
2 square pointed shovels .....	1 20
1 lantern.....	60
3 sighting sticks .....	50
1 wind mill .....	2,500 00
1 tool box.....	4 00
	<hr/>
	\$3,036 20

## SEWER CONSTRUCTION.

Annual Appropriation.....	\$10,000 00	
Additional Appropriation.....	95,000 00	
	<hr/>	\$105,000 00
Received from Appropriation for Sewer Maintenance, for ser- vices, George C. Evans.....	924 00	
Edward Dillon, for overdraft....	3 00	
	<hr/>	927 00
		<hr/>
		<u>\$105,927 00</u>

## EXPENDITURES.

Paid sundry persons, for labor..	\$73,374 56	
Paid Appropriation for Engineer- ing .....	1,773 76	
Paid Appropriation for Police...	4 13	
Paid Appropriation for Sewer Maintenance, for use of der- rick and engine.....	822 24	
Paid Appropriation for Streets, horses .....	500 00	
Paid Appropriation for Streets, labor .....	2,021 56	
Paid Appropriation for Water Works .....	338 17	
Paid sundry persons, for sun- dries .....	20,328 10	
	<hr/>	\$ 99,162 52
Balance to General Treasury Fund		6,764 48
		<hr/>
		<u>\$105,927 00</u>

## SEWER IN WILLARD AND HUMPHREY STREETS.

Balance undrawn Jan. 1, 1900...	\$3,868 75	
Appropriated from General Treasury Fund .....	6,000 00	
	<hr/>	\$9,868 75
Received from Appropriation, for Sewer Maintenance, for brick cement .....		21 56
		<hr/>
		<u>\$9,890 31</u>

## EXPENDITURES.

To sundry persons, for labor...	\$8,955 44	
To Appropriation for Engineering	51 91	
To Appropriation for Streets, sundries .....	104 00	
To Appropriation for Water Works .....	1 95	
To sundry persons, for sundries	777 01	
	<hr/>	<u>\$9,890 31</u>

## SEWER MAINTENANCE, LABOR.

Annual Appropriation.....	\$11,464 00	
	<hr/>	\$11,464 00
Received from sundry persons,		
cash returned to treasury...	18 25	
	<hr/>	18 25
		<hr/>
		\$11,482 25
		<hr/>
		<hr/>

## EXENDITURES.

Paid sundry persons, for labor .	\$10,218 11	
	<hr/>	\$10,218 11
Balance to General Treasury Fund		1,264 14
		<hr/>
		\$11,482 25
		<hr/>
		<hr/>



## SEWER MAINTENANCE, SUNDRIES.

Annual Appropriation.....	\$2,475 00	
Additional Appropriation .....	67 47	
	<hr/>	\$2,542 47
Received from sundry depart-		
ments for labor and material.	\$ 866 42	
	<hr/>	866 42
		<hr/>
		<u>\$3,408 89</u>

## EXPENDITURES.

Paid for lumber, hardware, etc.	\$ 878 43	
Paid for sundries.....	2,530 46	
	<hr/>	\$3,408 89
		<hr/>

## PERSONAL PROPERTY.

Schedule of Personal Property belonging to  
the Sewer Department Dec. 31, 1900:

20 parts of old grates .....	\$ 50 00	1 paving maul..	\$ 3 00
600 feet cotton hose .....	13 13	3 portable forges	200 00
30 crow bars...	30 00	16 tool boxes...	160 00
7 crabs for shear poles .....	140 00	4 sewer wheel- barrows .....	5 00
381 ft. drain pipe, all sixes .....	45 00	2 dutchmen for hydrants .....	25 00
8 water barrels.	8 00	9 wooden rolls..	2 25
5 mortar beds..	5 00	4 houses for engines .....	40 00
2 sand screens..	2 00	6 batteries and wire .....	129 00
100 catch basin steps .....	10 00	5 steam drills and tools .....	937 50
8 sq. ft. packing	1 00	7 masons trowels	3 50
5 water glasses.	10	610 ft. drill steel	170 00
1 box roller....	1 00	13 caulking tools	3 25
1 piper's diestock and plate .....	18 00	6 hand drill ham- mers .....	3 00
4 tool boxes for boilers .....	8 00	3 tape lines.....	3 00
2 pair tongs....	4 00	5 lbs. shims and wedges .....	2 50
5 hydrant wren- ches .....	5 00	8 points & chisels	65
5 jack bars.....	1 25	30 striking ham- mers .....	60 00

## PERSONAL PROPERTY—CONTINUED.

14 stone hammers .....	28 00	500 ft. 4 ply $\frac{3}{4}$ in. rubber hose	40 00
5 frost hammers	15 00	1 set branding irons .....	2 00
2 fiddle blocks..	10 00	26 hoes.....	13 00
300 pick handles	30 00	12 post hole spoons.....	12 00
62 sheave blocks	6 00	264 round point shovels .....	158 40
19 catch basin dippers.....	3 00	107 square point shovels .....	42 80
24 sheathing caps	48 00	2150 ft. old rope	60 00
9 100-lb. iron mauls .....	9 00	41,000 ft. sewer lumber .....	533 00
19 wooden mauls	19 00	9 marine pumps	112 00
11 sets shear poles .....	110 00	150 ft. large pump hose.....	150 00
1 Trainer transmitter sewer machine .....	2,000 00	400 lbs. dualin..	172 00
7 jack screws..	14 00	4 5-gal. oil cans.	1 50
5 kegs 30 penny nails.....	8 25	1 60-gal. oil can.	7 50
4 kegs mixed nails .....	6 60	5 steam drill pumps.....	5 00
108 lanterns ....	36 75	15 drilling spoons	7 50
20 pairs long rubber boots.....	50 00	5 hand saws....	2 50
18 iron pails....	6 50	1 saw clamp....	1 25
8 wooden wheelbarrows .....	7 00	3 adzes .....	3 75
		4 axes .....	3 00

## PERSONAL PROPERTY—CONTINUED.

4 hatchets.....	2 00	1 Webb Watson engine.....	500 00
3 packages carriage bolts....	3 00	2 sets engineer's tools.....	8 00
8 spirit levels..	4 00	6 sets engineer's boxes.....	24 00
2 steel squares.	1 00	1 upright boiler.	250 00
11 measuring sticks .....	5 00	2 derricks and rigging.....	500 00
13 hammer handles .....	1 30	3 submerged pumps.....	450 00
144 sledge hammer handles..	14 40	2 pile drivers...	150 00
3 gals. blue paint	4 00	3 driving horses	165 00
4 paint brushes.	1 50	3 draught horses	225 00
4 crow bars....	2 00	1 Goddard buggy	28 00
16 padlocks.....	8 00	1 concord wagon	75 00
6 ft. steam drill packing.....	90	1 light sleigh...	55 00
1 gong .....	2 50	1 2 seat wagon..	75 00
1 box repairs for marine pump.	10 00	1 single truck...	50 00
8 strainers for marine pump.	5 00	3 single sleds...	150 00
6 monkey wrenches.....	3 60	1 double truck..	250 00
3 Lidgewood engines.....	2,700 00	3 1-horse dump carts .....	250 00
1 Hoadley engine	350 00	1 single cart...	40 00
		6 blankets.....	12 00
		1 robe.....	2 00

## PERSONAL PROPERTY—CONTINUED.

2 chains .....	1 50	1 pipe vise.....	14 00
3 grub axes....	2 50	2 row boats....	15 00
264 picks.....	171 60	4 sheathing pul- lers .....	18 00
18 large chains.	54 00	6 iron tampers.	3 60
25 feet small chain.....	1 25	29 scoop handles	3 00
5 steam drill tool boxes.....	2 00	60 red lantern globes .....	3 60
10 spanner wren- ches.....	7 50	50 white lantern globes .....	3 00
1 large hose noz- zle.....	12 00	6 cross cut saws	6 00
7 hydrant wren- ches.....	7 00	24 iron wheel- barrows .....	72 00
1 set tap and dies	15 00	400 ft.Canada mat- ched boards...	13 00
21 sling chains.	10 50	400 ft.Spruce mat- ched boards...	7 00
7 sets tackles and falls .....	42 00	6 large rolls can- vas .....	400 00
50 gals. kerosene oil.....	4 00	1 paving hammer	75
2 neck yolkes..	2 00	30 boxes explod- ers .....	45 00
28 wooden pails	8 40	4 man hole covers	39 98
2 oatmeal buckets	1 00	7 Barbour-Stock- well grates....	61 25
4 frost wedges..	4 00	7 track grates..	46 65
10 hand drills..	2 00	11 Concord grates	94 00
1 sprinkling can	75		
10 ft. plug steel	1 50		

PERSONAL PROPERTY—CONTINUED.

7 lengths iron pipe .....	160 00	1 Staples grate.	3 89
5 single harness- es .....	125 00	4 edgestone cast- ing .....	35 00



# STREET CATCH BASINS BUILT DURING THE YEAR 1900.

STREETS.	LOCATION.
Anne.....	East side, 348 feet north of north line Merrimack street .....
Anne.....	East side, 445 feet north of north line Merrimack street.....
Anne.....	East side, 640 feet north of north line Merrimack street.....
Anne.....	East side, 746 feet north of north line Merrimack street.....
Aiken ave .....	West side, 10 feet north of north line Dalton street .....
Aiken ave .....	East side, 14 feet north of north line Ludlam street.....
Aiken ave .....	West side, 6 feet south of south line Cumberland road .....
Aiken ave .....	West side, 24 feet north of north line Cumberland road .....
Aiken ave .....	East side, 5 feet north of north line Cumberland road .....
Aiken .....	North side, 4 feet west of west line Ford street .....
Aiken .....	South side, 4 feet west of west line Ford street .....
Aiken .....	South side, 4 feet west of west line Moody street.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900.—CONTINUED.

STREETS.	LOCATION.
Aiken .....	North side, 4 feet west of west line Moody street.....
Auburn .....	North side, 10 feet west of west line Linden street .....
Beacon .....	In track, 61 feet north of north line Eleventh street.....
Beacon .....	West side, 9 feet north of north line Third street .....
Beech .....	In track, 49 feet north of north line Third street .....
Beech .....	In track, 7 feet north of north line Sixth street .....
Boynton .....	North side, 45 feet east of west line Barker avenue .....
Boynton .....	North side, 234 feet west of west line Barker avenue .....
Boynton .....	North side, 455 feet west of west line Barker avenue.....
Bridge, rebuilt ....	East side, 36 feet south of south line Central Bridge .....
Bridge .....	In track, 38 feet south of south line Central bridge .....
Bridge .....	In track, 38 feet south of south line Central bridge .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Bridge .....	East side, 127 feet south of south line Richardson street .....
Bridge .....	East side, 9 feet north of north line First street .....
Bridge .....	In track, 20 feet north of north line Lakeview avenue .....
Bridge .....	In track, 20 feet north of north line Lakeview avenue .....
Bridge .....	In track, 198 feet north of north line Twelfth street .....
Bridge .....	In track, 198 feet north of north line Twelfth street .....
Broadway .....	In track, 58 feet east of angle west of canal at guard gates.....
Broadway .....	In track, 143 feet east of angle west of canal at guard gates.....
Broadway .....	In track, 231 feet east of angle west of canal at guard gates.....
Broadway .....	North side, 6 feet west of angle west of canal at guard gates.....
Broadway .....	South side, 10 feet west of angle west of canal at guard gates.....
Broadway cesspool.	North side, 63 feet east of angle west of canal at guard gates.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Broadway cesspool.	South side, 52 feet east of angle west of canal at guard gates.....
Broadway cesspool.	North side, 146 feet east of angle west of canal at guard gates.....
Broadway cesspool.	South side, 139 feet east of angle west of canal at guard gates.....
Broadway .....	North side, 226 feet east of angle west of canal at guard gates.....
Broadway .....	South side, 241 feet east of angle north of guard gates at canal....
Broadway .....	In track, 30 feet west of east line Mt. Vernon street .....
Broadway .....	In track, 13 feet north of south line Suffolk street.....
Burns .....	North side, 5 feet east of east line Madison street .....
Central.....	West side 105 feet north of north line Charles street.....
Central.....	South side, 5 feet west of west line Cedar street.....
Central.....	In track, 100 feet north of north line Warren street.....
Central.....	In track, 100 feet north of north line Warren street.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Central.....	East side, 114 feet south of south line Middle street .....
Central.....	West side, 100 feet north of north line Warren street .....
Central.....	West side, 4 feet south of south line Market street .....
Central.....	In track, 72 feet north of north line Market street .....
Cheever .....	South side, 12 feet east of east line Tucker street .....
Chelmsford.....	In track, 20 feet south of north line Jenness street.....
Chelmsford.....	In track, 233 feet south of south line Parker street .....
Chelmsford.....	In track, 28 feet north of north line New Fletcher street .....
Chelmsford.....	In track, 32 feet north of north line Wilson lane .....
Church.....	In track, 195 feet west of west line George street .....
City Hall ave.....	Centre, 202 feet west of west line City Hall avenue .....
City Hall ave.....	Centre, 51 feet east of east line Palmer street .....



STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
City Hall ave.....	Centre, 150 feet east of east line Palmer street.....
City Hall ave.....	Centre, 7 feet west of west line Old City Hall.....
Colonial ave .....	North side, 5 feet east of east line Standish street.....
Colonial ave .....	North side, 6 feet west of west line Standish street.....
Colonial ave .....	South side, 13 feet west of west line Standish street.....
Colonial ave .....	North side, 5 feet west of west line Plymouth street.....
Colonial ave .....	South side, 28 feet west of west line Plymouth street.....
Colonial ave .....	North side, 59 feet east of east line Riverside street.....
Colonial ave .....	South side, 28 feet east of east line Riverside street.....
Crawford .....	West side, 8 feet south of south line Fifth avenue .....
Crawford .....	East side, 8 feet south of south line Fifth avenue .....
Cumberland rd....	South side, 5 feet east of east line Aiken avenue.....



STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Dalton.....	North side, 6 feet west of west line Aiken avenue.....
Dalton.....	South side, 10 feet west of west line Aiken avenue.....
Davenport, East...	South side, 5 feet west of west line Saunders avenue.....
Dutton .....	South side, 10 feet east of east line Kitson street.....
Dutton .....	South side, 7 feet east of east line Kitson avenue.....
Dutton .....	North side, 8 feet east of east line Kitson avenue.....
Dutton .....	In track, 5 feet east of east line Kitson avenue.....
Dutton .....	In track, 6 feet west of east line Kitson ave., opposite L. M. S. Office.....
East Merrimack, re- built .....	In track, 32 feet east of west line Stackpole street.....
East Merrimack, re- built .....	In track, 33 feet east of west line Stackpole street.....
Ellsworth .....	North side, 7 feet west of west line Gorham street .....
Ellsworth .....	South side, 6 feet west of west line Gorham street .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Exeter .....	East side, 11.6 feet north of north line Dalton street .....
Fifth ave.....	South side, 4 feet east of east line Dunfey street .....
Fifth ave.....	South side, 4 feet east of east line Mt. Hope street .....
Fifth ave.....	South side, 48 feet east of east line Avon street .....
Fifth ave.....	North side, 49 feet east of east line Avon street .....
First.....	South side, 19 feet east of east line Bridge street.....
First.....	In track, 15 feet east of west line Read street .....
Fletcher.....	In track, 7 feet north of north line Canal bridge .....
Ford .....	West side, 4 feet north of north line Aiken street .....
Ford .....	West side, 3 feet north of north line St. James street .....
Ford .....	West side, 157 feet south of south line St. James street.....
Fort Hill ave.....	West side, 7.5 feet north of north line Moody School lot.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Fourth ave.....	South side, 11 feet west of west line Mt. Grove street.....
Fourth ave.....	South side, 3 feet west of west line Moody street.....
Fourth.....	North side, 4 feet east of east line Read street.....
Gorham.....	In track, 9 feet south of north line Moore street.....
Gorham.....	In track, 12 feet south of north line Moore street.....
Gorham.....	West side, 95 feet north of north line Suttle street.....
Gorham.....	East side, 144 feet north of north line Suttle street.....
Gorham.....	In track, 144 feet north of north line Suttle street.....
Gorham.....	East side, 17 feet north of north line Moore street.....
Gorham.....	In track, on north line Chambers street.....
Gorham.....	In track, on north line Chambers street.....
Gorham.....	In track, 12 feet north of south line Winter street.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Gorham .....	In track, 12 feet north of south line Winter street .....
Gorham .....	In track, 12 feet west of west line Congress street .....
Gorham .....	In track, 12 feet west of west line Congress street .....
Hanks.....	West side, 8 feet south of south line Sherman street.....
Hanks.....	West side, 24 feet south of angle in street .....
Harrison .....	East side, 224 feet north of north line Oak street.....
Harrison .....	East side, 374 feet north of north line Oak street.....
High .....	In track, centre of High and Andover streets .....
Howard .....	West side, 179 feet north of north line Tanner street .....
Howard .....	East side, 161 feet north of north line Tanner street .....
Hovey.....	East side, 19.5 feet. north of north line Lakeview avenue .....
Hovey.....	East side, 19.5 feet north of north line Lakeview avenue.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Hudson .....	West side, 1 foot north of north line Bassett street .....
Humphrey .....	West side, 6.5 feet north of north line Methuen street .....
Humphrey .....	East side, 17 feet north of north line Methuen street .....
Humphrey .....	West side, 660 feet north of north line Methuen street .....
Humphrey .....	West side, 4.5 feet south of south line Whitney avenue .....
Humphrey .....	East side, 7.5 feet south of south line Whitney avenue .....
• Humphrey .....	East side, 4 feet south of south line Eighteenth street .....
Humphrey .....	West side, 2 feet south of south line Eighteenth street .....
Humphrey .....	East side, 667 feet north of north line Methuen street .....
Jackson .....	North side, 139 feet west of east line Revere street .....
Jackson .....	South side, 158 feet west of east line Revere street .....
Kidder .....	North side, 7 feet east of east line Prospect street .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Kitson .....	East side, 4 feet north of north line Dutton street .....
Lakeview ave.....	In track, 70.5 feet south of south line Campaw street .....
Lakeview ave.....	In track, 66 feet south of south line Campaw street .....
Lakeview ave .....	In track, 7 feet east of east line Front street .....
Lakeview ave.....	In track, 7 feet east of east line Front street .....
Lakeview ave.....	In track, 22 feet west of east line Aiken street .....
Lakeview ave.....	In track 22 feet west of east line Aiken street .....
Lawrence .....	In track, 40 feet north of north line North street .....
Lawrence .....	In track 2 feet south of south line Swift street .....
Lawrence .....	In track, 273 feet north of north line Moore street .....
Liberty .....	In track, 38 feet west of west line Osgood street .....
Liberty .....	In track, 78 feet west of west line Warwick street .....



STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Lincoln.....	South side, 6 feet west of west line Quebec street.....
Linden .....	East side, 3 feet south of south line Cherry street .....
Lyons.....	West side, 7 feet north of north line New street .....
Main .....	East side, 65 feet south of south line London street.....
Main .....	West side, 100 feet south of south line London street.....
Mammoth rd .....	In track, 29 feet south of south line Riverside street.....
Mammoth rd .....	In track, 75 feet north of north line Third avenue .....
Mammoth rd .....	West side, 5 feet south of south line Third avenue.....
Market.....	North side, 2 feet east of east line Palmer street .....
Market.....	South side, 133 feet east of east line Palmer street .....
Market.....	South side, 374 feet east of east line Palmer street .....
McKinley ave .....	North side, 2.5 feet east of west line Rose avenue .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900.—CONTINUED.

STREETS.	LOCATION.
Meadowcroft, cess- pool .....	East side, 23 feet south of dividing line Lowell Bleachery .....
Meadowcroft, cess- pool .....	West side, 14 feet south of dividing line Lowell bleachery .....
Merrill .....	West side, 130 feet north of north line Rogers street .....
Merrill .....	East side, 128 feet north of north line Rogers street .....
Merrimack .....	In track, 8 feet east of east line Hanover street .....
Merrimack .....	In track, 8 feet east of east line Hanover street .....
Merrimack .....	In track, 208 feet north of north line Aiken street .....
Merrimack .....	In track, 208 feet north of north line Aiken street .....
Merrimack .....	In track, 52 feet east of west line Dutton street .....
Merrimack .....	In track, 52 feet east of west line Dutton street .....
Merrimack .....	South side, 63 feet east of west line Dutton street .....
Methuen .....	North side, 6.5 feet west of west line Humphrey street .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Middle .....	North side, 6 feet west of west line Palmer street.....
Middlesex .....	In track, 57 feet east of east line Howard street .....
Middlesex .....	In track, 57 feet east of east line Howard street .....
Middlesex .....	In track, 148 feet east of west line 1463 Middlesex street.....
Middlesex .....	In track, 147 feet east of west line 1463 Middlesex street.....
Middlesex .....	In track, 33 feet east of west line Burnside street .....
Middlesex .....	In track, 34 feet east of east line Burnside street .....
Middlesex .....	In track 110 feet west of west line Foster street.....
Middlesex .....	In track, 118 feet west of west line Foster street.....
Middlesex .....	In track, 12 feet west of west line Wilder street .....
Middlesex .....	In track, 12 feet west of west line Wilder street .....
Middlesex .....	South side, 85 feet west of east line, King street .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Middlesex .....	In track, 4 feet east of east line, Connell street .....
Middlesex .....	In track, 4 feet east of east line Con- nell street .....
Middlesex .....	In track, 7 feet east of west line Hadley street .....
Middlesex .....	In track, 7 feet east of west line Hadley street .....
Middlesex .....	North side, 7 feet east of east line Hadley street .....
Middlesex .....	South side, 76 feet east of east line Hadley street .....
Moody .....	West side, 21 feet south of south line Colonial avenue .....
Moody .....	East side, 6 feet south of south line Fifth avenue .....
Moody .....	West side, 6 feet south of south line Fifth avenue .....
Moody .....	West side, 5 feet north of north line Fourth avenue .....
Mt. Grove .....	West side, 7 feet north of north line Fifth avenue .....
Mt. Grove .....	East side, 13 feet north of north line Fifth avenue .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Mt. Grove.....	East side, 7 feet north of north line Sixth avenue .....
Mt. Grove.....	West side, 10 feet north of north line Sixth avenue .....
Mt. Hope .....	West side, 5 feet north of north line Fifth avenue .....
Mt. Hope .....	East side, 5 feet north of north line Fifth avenue .....
Mt. Hope .....	West side, 29 feet north of north line Colonial avenue .....
Mt. Hope .....	East side, 12 feet north of north line Colonial avenue.....
Nesmith.....	In track, 128 feet north of manhole at end of Nesmith street sewer .
Nesmith.....	In track, 54 feet south of south line Costello's house .....
Nesmith.....	West side, 10 feet south of south line Sherman street.....
Palmer .....	In track, 4 feet west of west line Palmer street.....
Pawtucket.....	North side, 50 feet east of east line Mt. Washington street .....
Pawtucket.....	In track, 4 feet east of east line Mt. Washington street.....



STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Pawtucket.....	In track, 4 feet east of east line Mt. Washington street.....
Pawtucket.....	South side, 7 feet east of east line Rolfe street .....
Pawtucket.....	North side, 9 feet east of east line Rolfe street .....
Pawtucket.....	South side, 11 feet west of west line Wilder street .....
Pawtucket.....	South side, 11 feet west of west line Walker street .....
Pawtucket.....	North side, 10 feet west of west line Walker street .....
Perry .....	West side, 65 feet north of north line Sherman street.....
Plymouth .....	East side, 6 feet north of north line Colonial avenue.....
Porter .....	North side, 4 feet east of east line Huntington street.....
Prescott.....	At Central street, 1 foot east of east line Prescott street.....
Prescott.....	East side, 313 feet south of south line Merrimack street.....
Prescott.....	West side, 203 feet south of south line Merrimack street.....



STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Prescott.....	In track, 299 feet south of south line Merrimack street. ....
Prospect .....	West side, 7 feet south of south line Kidder street .....
Read .....	West side, 10 feet south of south line Fourth street .....
Read .....	East side, 12 feet south of south line Fourth street.....
Read .....	East side, 5 feet north of north line Fourth street.
Read .....	West side, 7 feet north of north line Fourth street .....
Read .....	West side, 8 feet south of south line Fifth street .....
Read .....	West side, 5 feet north of north line Fifth street .....
Read .....	East side, 5 ft north of north line Fifth street .....
Read .....	West side, 3 feet north of north line Sixth street. ....
Riverside.....	East side, 55 feet north of north line Colonial avenue.....
Robert .....	West side, 4 feet north of north line Fifth avenue .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Robert .....	West side, 5 feet north of north line Sixth avenue .....
Rolfe .....	East side, 8.5 feet south of south line Pawtucket street.....
Sanders ave.....	East side, 5 feet south of south line Davenport street .....
School.....	East side, 33 feet north of south line Sawtelle place .....
School.....	In track, 97 feet south of south line Pawtucket bridge.....
Sherman .....	North side, 1 foot east of east line Fort Hill avenue .....
Sixth ave.....	South side, 5 feet west of west line Robert street.....
Starbird.....	West side, 60 feet north of north line Varnum avenue.....
Starbird.....	East side, 66 feet north of north line Varnum avenue .....
Stevens .....	West side, 12 feet north of north line McKinley avenue.....
Tenth.....	South side, 16 feet east of east line Beech street .....
Tenth.....	In track, 41 feet east of east line Beech street .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900.—CONTINUED.

STREETS.	LOCATION.
Third .....	In track, 28 feet east of east line Bridge street.....
Third .....	In track, 263 feet east of east line Read street .....
Thorndike .....	In track, 8 feet south of south line Canal bridge .....
Tilden .....	South side, 306 feet north of north line Moody street.....
Varnum ave.....	In track, 21 feet east of dividing line between Park and Bartlett land.
Varnum ave.....	North side, 21 feet east of dividing line between Park and Bartlett land
Varnum ave.....	South side, 20 feet east of dividing line between Park and Bartlett land.
Varnum ave.....	South side, 319 feet east of angle at Hill's.....
Varnum ave.....	In track, 313 feet east of angle at Hill's.....
Varnum ave.....	In track, 273 feet west of angle at Hill's.....
Varnum ave.....	East side, 268 feet west of angle at Hill's.....
Varnum ave.....	West side, 278 feet west of angle at Hill's.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Varnum ave.....	In track, 110 feet west of west line No. 537 .....
Varnum ave.....	North side, 71 feet west of west line Lexington avenue.....
Varnum ave.....	South side, 75 feet west of west line Lexington avenue.....
Varnum ave.....	South side, 376 feet west of west line Lexington avenue.....
Varnum ave.....	North side, 350 feet west of west line Lexington avenue.....
Varnum ave.....	South side, 592 feet west of west line Lexington avenue.....
Varnum ave.....	North side, 566 feet west of west line Lexington avenue.....
Varnum ave.....	South side, 163 feet west of west line Townsend avenue.....
Varnum ave.....	North side, 163 feet west of west line Townsend avenue.....
Varnum.....	East side, 13 feet north of north line Sixth street .....
Victoria .....	North side, 360 feet east of east line Stevens street.....
Victoria .....	South side, 399 feet east of east line Stevens street.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1900—CONTINUED.

STREETS.	LOCATION.
Warren .....	South side, 3 feet west of west line Warren street.....
West.....	West side, 5 feet north of north line Blossom street.....
West.....	West side, 24 feet south of south line Coburn street .....
Westford.....	In track, 26 feet east of east line Wilder street.....
Westford.....	In track, 26 feet east of east line Wilder street.....
Willard.....	West side, 183 feet north of north line Nineteenth street.....
Winter .....	South side, 4 feet east of east line South street.....
Woodward ave.....	North side, 6 feet west of west line Mammoth road.....
Woodward ave.....	North side, 11 feet west of west line Wright street.....
Worthen .....	South side, 3 feet north of north line Market street .....

Six catch basins on Market street made over to fit the city grates on account of smooth pavement.

## BRIDGES.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Aiken .....	Merrimack river .....	Iron .....	City.
Aiken .....	Northern canal .....	Iron .....	City.
Bridge .....	Merrimack river .....	Iron .....	City.
Bridge .....	Eastern canal .....	Wood .....	Props. of the Locks and Canals on Merrimack river.
Broadway .....	Pawtucket canal .....	Wood .....	Props. of the Locks and Canals on Merrimack river.
Broadway .....	Western canal .....	Stone .....	City.
Cabot .....	Northern canal .....	Wood .....	City.
Cambridge .....	River Meadow Brook .....	Wood .....	City.
Central .....	Pawtucket canal .....	Wood .....	Props. of the Locks and Canals on Merrimack river.



BRIDGES—CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Chelmsford .....	B. & M. R. R. (Lowell system)	Iron .....	Boston and Maine railroad.
Church .....	Concord river .....	Stone .....	City.
Congress .....	River Meadow Brook .....	Wood .....	City.
Dutton .....	Western canal .....	Wood .....	City.
East Merrimack.	Eastern canal .....	Wood .....	Props. of the Locks and Canals on Merrimack river.
East Merrimack.	Concord river .....	Iron & stone.	City. Built in 1894.
Gorham .....	River. Meadow Brook .....	Wood .....	City.
Hale .....	B. & M. R. R. (Lowell system)	Iron .....	Boston and Maine railroad.
Hall (Private st).	Western canal .....	Wood .....	Lawrence Mfg. Co. and Suffolk Mills.
Howard .....	River Meadow Brook .....	Stone .....	City.

## BRIDGES—CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Jefferson .....	Western canal.....	Iron.....	City.
Lawrence .....	Concord river.....	Wood .....	City.
Lawrence .....	Wamesit canal.....	Wood .....	Wamesit Power Co.
Lincoln .....	River Meadow Brook.....	Wood .....	City.
Market .....	Merrimack canal.....	Wood .....	City.
Market .....	Western canal.....	Wood .....	City.
Merrimack.....	Merrimack canal.....	Stone & brick	Props. of the Locks and Canals on Merrimack river.
Merrimack.....	Western canal.....	Wood .....	Props. of the Locks and Canals on Merrimack river.
Moody .....	Western canal.....	Wood .....	City.
Moody .....	Merrimack river.....	Iron.....	City. Built in 1896.

## BRIDGES—CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Newhall.....	River Meadow Brook.....	Iron.....	City.
Pawtucket.....	Northern canal.....	Wood.....	Props. of the Locks and Canals on Merrimack river.
Pawtucket.....	Pawtucket canal.....	Wood.....	Props. of the Locks and Canals on Merrimack river.
Plain.....	River Meadow Brook.....	Wood.....	City. Built in 1894.
Rogers.....	Concord river.....	Stone.....	City.
School.....	Merrimack river.....	Iron.....	City.
School.....	Northern canal.....	Brick & stone	Props. of the Locks and Canals on Merrimack river.
School.....	Pawtucket canal.....	Wood.....	Props. of the Locks and Canals on Merrimack river.
Suffolk.....	Northern canal.....	Wood.....	Props. of the Locks and Canals on Merrimack river.

BRIDGES—CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Thorndike .....	Pawtucket canal.....	Wood .....	Props. of the Locks and Canals on Merrimack river.
Wilder .....	B. & M. R. R. (Lowell system)	Wood & iron.	Boston and Maine railroad and City.
Worthen .....	Western canal.....	Wood .....	City.

TABLE OF SEWERS BUILT IN 1900, LENGTH, SIZE, MATERIAL,  
WHEN BEGAN, FINISHED AND COST.

STREETS	SIZE AND LENGTH		MATERIAL	Average Depth	Manholes	Cubic Yards Ledge	BEGUN	FINISHED	COST	Total Length
	INCH	FEET								
Bridge, outlet 21 ft. 41 in. brick										
Corbett.....	12	611	Brick	8.9	3		Aug. 12	Sept. 11	\$ 1,075 22	21
Eighteenth.....	12	280	Akron Pipe	8.4	1		July 5	July 16	967 75	611
Foster.....	12	212	Akron Pipe	6.8	1	38	May 18	May 26	733 71	280
Gorham.....	15	842	Akron Pipe	8.7	3		June 25	July 11	783 92	212
High.....	12	345	Akron Pipe	10.1	1		April 16	May 17	1,825 82	842
John.....	12	107	Akron Pipe	11.3	1	35	Dec. 10	Jan. 5, '01	1,237 41	345
Merrill.....	12	155	Akron Pipe	11.3	1		Sept. 12	Sept. 26	689 47	107
McKinley ave.....	12	359	Akron Pipe	9.2	1		July 18	Aug. 2	655 82	155
Montreal.....	10	264	Akron Pipe	9.5	2		July 5	July 13	883 03	359
New.....	12	138	Akron Pipe	8.1	1		May 16	May 21	433 67	264
Plain.....	10	313	Akron Pipe	9.7	2		July 10	July 17	319 10	138
Pawtucket at Wilder.....	18	525	Akron Pipe	8.5	2		April 16	May 7	627 07	313
Pawtucket at Moody.....	12	360	Akron Pipe	7.7	1	103	July 16	Aug. 24	1,071 20	525
Quebec.....	10	196	Akron Pipe	9.3	1		June 13	July 3	1,530 71	360
Rogers, 155 ft. 2 ft x 3 ft. brick							Oct. 5	Oct. 13	425 70	196
253 ft. 24 in. iron.....			Brick and Iron	26.8	1		April 23	Aug. 23	11,699 74	408
Saritoga.....	12	671	Akron Pipe	7.6	3		July 17	July 25	868 93	671
Sanders ave.....	12	391	Akron Pipe	14.5	1		June 13	July 12	2,476 03	391
Whipple.....	12	199	Akron Pipe	10.	1		May 22	May 31	530 48	199
Wilder.....	12	235	Akron Pipe	9.8	2		Nov. 7	Nov. 17	668 15	235
Woodward ave., unfinished 1640 x 50 x 33.....			Brick	19 7	7	2322	July 19		46,458 04	1640
Totals.....		9,437			29	2498			\$75,960 97	9437

Willard and Humphrey streets. Total Length 3697 feet. Total cost \$46,021.56.

## SEWERS BUILT DURING THE YEAR 1900—CONTINUED.

Lineal feet of sewers laid in 1900.....	9,437 or	1.79 miles
Laid previously.....	82.47	"
	<hr/>	
Length of sewers January 1, 1901.....	84.26	"



ANNUAL REPORT  
OF THE  
CHIEF ENGINEER  
OF THE  
FIRE DEPARTMENT  
OF THE  
CITY OF LOWELL  
FOR THE YEAR 1900.



LOWELL, MASS.:  
COURIER-CITIZEN COMPANY, PRINTERS  
1901.



# REPORT.

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CHIEF'S OFFICE, PALMER ST. ENGINE HOUSE,

LOWELL, January 1, 1901.

*To the City Council of the City of Lowell :*

GENTLEMEN:—In accordance with the requirements governing the Fire Department, it becomes my duty, as Chief Engineer, to present to you the annual report of the Fire Department of the City of Lowell for the year ending December 31, 1900.

The report will be found to contain statements in detail, embracing the amount of expenditures, a register of the department, with age, residence and occupation of each member, a record of all fires and alarms which have occurred during the year, and the cause thereof, with the names of the owners or occupants, the loss and insurance, as nearly as could be ascertained, with the number and location of the fire alarm boxes; also an inventory of all property of the department in charge

of the several companies, and such information as is thought proper for your consideration.

The following statement will show the receipts and expenditures :

### RECEIPTS.

Appropriations.....	\$120,834 84
---------------------	--------------

### EXPENDITURES.

Pay Rolls.....	\$100,570 49
Water Works.....	395 94
Hose, Pipes and repairs of same.....	1,383 45
Telephone .....	254 53
Express and Freight.....	31 60
Horses and use of same.....	2,070 20
Shoeing .....	1,753 26
Veterinary and Medicines.....	640 75
Hay, Straw and Grain.....	5,404 66
Harness and Repairs of same.....	438 62
Furniture, etc.....	250 41
Coal and Wood.....	2,012 19
Gas .....	1,172 00
Printing .....	161 95
Repairs on Apparatus and Houses.....	2,488 36
Laundry.....	118 28
Cloth, Buttons and Badges.....	177 80
Fire Alarm, repairs, etc.....	710 81
Oil, Sponges, Brooms, etc.....	799 54

Total Expenditures for the year...	\$120,834 84
------------------------------------	--------------

## SALARIES OF MEMBERS OF FIRE DEPARTMENT.

Chief Engineer.....	\$2,000 00	per annum.
First Assistant Engineer.....	1,400 00	“ “
Other Assistant Engineers.....	400 00	“ “
Foreman of the companies (call).....	300 00	“ “
Call Men.....	200 00	“ “
Permanent Men.....	2 75	“ day.
Foremen of Companies (permanent)..	3 00	“ “
Engineers of Steamers (permanent)..	3 00	“ “

The department is divided into two classes, Permanent and Call. The Permanent force consists of

Chief Engineer,	24 Drivers,
1 1st Assistant Engineer,	13 Laddermen,
1 Fire Alarm Operator,	6 Engineers of Steamers,
24 Hosemen,	1 Driver for the Chief Engineer.
4 Patrolmen,	

A total of 75, of which 15 are Captains and 12 Lieutenants.

The Call force consists of

3 Assistant Engineers,	70 Hosemen.
27 Laddermen,	

A total of 100, of which there are 1 Captain and 4 Lieutenants.

This makes a total of 175, divided into Companies as follows:

- 6 Steam Fire Engine Companies, with Hose Reels.
- 5 Horse Hose Companies.
- 4 Hook and Ladder Companies, 2 with Chemical Engines attached.
- 1 Protective Company.

The changes in the force during the year have been as follows :

Appointed on Call force.....	4
Suspended .....	1
Discharged .....	4

The apparatus is kept in the best possible condition, and consists at present of six Engines, six one-horse and one two-horse Hose Wagons, four two-horse Reels, one Babcock Aerial Truck, and three Trucks of other patterns, two Chemical Engines, one Hale Water Tower, one Patrol Wagon and Sleigh, fully equipped, three Hose Pungs, eight Fuel Wagons, two Wagons and one Sleigh for use on fire alarm, one Wagon and Sleigh for Chief's use, one Wagon for Assistant Chief's use, and sixteen Fire Extinguishers. In reserve there is one two-horse Hose Reel.

#### FIRE-ALARM.

This branch of the service has been maintained in most excellent condition by the operator, Mr. H. C. Fernald, and has given perfect alarms the past year.

There have been one hundred and eighty alarms given from signal boxes ; and No School signal has been given nineteen times the past year.

Connected with the circuit there is one ten circuit non-interfering repeater, one ten-circuit cutout and testing switch-board, twelve galvanometers, ten bell-



strikers, fifteen large gongs for engine houses, eight small gongs, seventeen indicators, sixteen electro-magnets and connections for opening stall doors, twenty-three electric light current protectors, one hundred and seventeen public and eight private signal boxes, one hundred miles of wire, the whole supplied with a storage battery of four hundred cups.

There is also one large gong and indicator combined in the Police Station, one large gong at Pumping Station, Merrimack Square, Tower's Corner, and near the Northern Depot.

An appropriation of \$10,000 was made the past year to put the wires of the department in the centre of the city underground, but owing to the long time necessary to secure the material the job has not been completed.

#### TELEPHONE.

There are connected with this system twenty stations, consisting of transmitter, telephone bell and battery; there are also twenty-two tap bells for the rooms of the Engine Houses and about forty miles of wire owned by the city under the care of the Fire Alarm Operator, except the telephones and transmitters, which are leased from the Telephone Company. The ringing line is supplied by a storage battery of 110 cups.

#### HORSES AND HARNESES.

There are sixty-four horses in the service of the department, thirteen of which belong to the Street

Watering Department and are used by the department in bad weather for their keeping. Fourteen new horses have been purchased the past year to take the place of one that died and thirteen that had passed their usefulness for this department. Most of the horses now are in good condition, but the service required of them by enforced idleness that they are compelled to endure, and when called upon to respond to alarms is calculated to soon break them down and render them unfit for use in this department. There are twelve sets of double harnesses, ten sets of three-horse hitch harnesses, and four single swinging harnesses of the Berry and Hale patents.

#### PROTECTIVE DEPARTMENT.

This department is maintained by the city and consists of five permanent men. By prompt and efficient work during the past year it has saved the property owners and insurance companies many times the cost of maintenance. It has also been of great assistance in subduing small fires. They responded to two hundred and fifteen alarms; in service one hundred and eighty-three hours; spread four hundred and fifty-seven covers, and used eighty-eight extinguishers.

Chemical Engine C, attached to Truck 2, has used fifty-four tanks. Chemical Engine B, attached to Truck 3, has used fifty-one tanks.

## HYDRANTS.

During the year eight new post hydrants and one flush hydrant have been added, making a total of eleven hundred and forty-seven.

They are located as follows: Bodwell, Nelson, Varnum Avenues; Columbia, Hildreth, Johnson, Oakland, West Sixth Streets; and Cumberland Road.

## HOUSES.

The houses of the department are in very good repair.

## HOSE.

The department will need two thousand feet of new hose the present year.

## FIRES AND LOSSES.

The whole number of alarms of fire during the year ending December 31, 1900, was four hundred and sixty-five (465). One hundred and eighty were given from signal boxes, one hundred and forty-nine still, one hundred and eleven telephone and twenty-five automatic alarms, an increase of ninety-nine over last year. The No School signal was given nineteen times.

There were two hundred and thirty-one fires extinguished by chemicals and one hundred and twenty-three where water was used; the remaining

number were extinguished by other means, or had been put out before the arrival of the department.

The whole amount of loss was \$134,145.46; insurance, \$2,359,422.00; insurance paid, \$122,800.42; loss above insurance, \$11,345.04; the valuation was \$3,012,924.00.

There have been sixteen alarms for fires out of the city, to which some part of the department has responded, the past year, for which no insurances are kept. Tewksbury 5, Dracut 10 and Chelmsford 1.

Every year many needless alarms result from the soot-choked condition of chimneys. With proper care and attention on the part of citizens, many of these might have been prevented. There were 45 of these alarms the past year. Another cause for many needless alarms comes from the different dumps. A little more care used by the people having those dumps in charge, by burning the combustible rubbish on top instead of burying it, would save a good many citizens saying bad words, and the department many hours of hard work. There were 28 of these alarms the past year.

There were only twelve fires where the loss was over \$1,000.00. Jan. 18th, the Boott Cotton Mills suffered a loss of \$18,799.61; Feb. 1st, J. Marin's block, \$26,061.48; Feb. 8th, D. J. Murphy, Suffolk Hall, \$6,001.38; Feb. 18th, J. A. Coram's residence, \$2,183.91; Feb. 22nd, H. Miller and Rollins & Son, \$1,072.43; March 5th, Fiske block, \$3,117.66;



June 6th, A. Bachelder & Co., \$1,696.00 ; June 21st, Mansur Block, \$7,456.18 ; Aug. 12th, C. H. Hanson & Co., \$2,792.30 ; Aug. 17th, Wamesit Power and U. S. Bunting Co., \$12,853.26 ; Oct. 9th, T. J. McDonald, \$4,690.00 ; Nov. 8th, Harvard Brewing Co., \$31,609.47—a total of \$118,333.68. leaving \$15,811.78 to be divided between the other 437 fires. There have been 54 fires where the Department did not attend. The loss was \$7,345.16 ; insurance, \$3,983,090.00 ; insurance paid, \$7,326.66 ; valuation. \$6,778,000.00.

For further particulars in regard to fires and losses I refer you to the tables annexed to this report.

The following will show the causes of the different alarms as near as could be ascertained.

Curtains set by gas jet..	9	Water Leak.....	2
Meat and lard on stove..	2	Charcoal set partition...	1
Children and matches...	20	Peat Bog.....	2
Brush .....	13	Wood Spittoons.....	3
Chimneys .....	45	Lime .....	1
Hot ashes .....	9	Gas leak.....	1
Out of the city.....	16	False alarms.....	1
Clothes in closet.....	5	Fire crackers .....	13
Defective chimneys.....	5	Supposed incendiary....	8
Clothes and hot stove...	12	Alarms for the same fire.	19
Rubbish.....	9	Oil lamp explosion.....	9
Rats and matches .....	6	Electric wires.....	2
Sparks set roof.....	17	Overheated thermostats.	17
Unknown .....	13	Combustion .....	13
Thawing pipe.....	1	Naphtha explosion.....	1

Cigar stubs.....	4	Drying plaster.....	1
Beds .....	4	Boiler smoking.....	6
Wires crossed.....	2	Bonfire.....	3
Stove smoking.....	9	Overheated fireplace....	4
Spark set sleepers.....	4	Candle set clothes.....	3
Spark set bridge.....	3	Spark from forge.....	1
Oil stoves .....	7	Second alarms.....	4
Careless use of matches .	16	Burning sulphur to kill	
Incendiary.....	2	moths.....	4
Dump.....	28	Carboy of acid .....	1
Rekindled .....	5	Gas explosion.....	1
Grass .....	29	Gas radiator .....	1
No school .....	19	Hot air balloon.....	2
Awning .....	9	Overheated mule head...	1
Lightning .....	1	Careless smoking.....	4
Defective stovepipe.....	3	Spark set sawdust.....	5
Overheated furnace.....	1	Hay steaming.....	4
Defective baker's ovens .	2	Water hammer set ther-	
Heating frame .....	2	mostat .....	4
Sheillac explosion.....	1		

Of the buildings in which these fires occurred, two hundred and seventy-one were of wood and eighty-two of brick and stone.



WOODEN BUILDINGS.

BLOCKS, COTTAGES, ETC.	MILLS.	CHURCHES.	SCHOOL- HOUSES.	SHEDS.	STABLES
1 Story, 1,820	1 Story, 26	21	28	2,229	2,233
1 1-2 " 2,173	2 " 22				
2 " 3,605	3 " 49				
2 1-2 " 2,051	4 " 49				
3 " 915	5 " 3				
4 " 121					
5 " 21					
10,706	149	21	28	2,229	2,233

Total number of wooden buildings . . . . . 15,366  
An increase during the past year of . . . . . 186

BRICK BUILDINGS.

BLOCKS, ETC.			MILLS.			CHURCHES.	SCHOOL- HOUSES.
1	Story,	61	1	Story,	21	21	22
2	"	120	2	"	64		
2 1-2	"	68	3	"	72		
3	"	205	4	"	48		
4	"	184	5	"	22		
5	"	31	6	"	26		
6	"	6	6 1-2	"	7		
675			260			21	22

Total number of brick buildings..... 978  
 An increase during the past year of..... 5

## STONE BUILDINGS.

Churches, 6; 1 Story, 2; 2 Story 26; 3 Story, 8; 4 Story, 6.

Total number of stone buildings.....	48
Total number of buildings of all descriptions.....	16,392
An increase during the past year of.....	191

Some of these blocks have from four to twenty tenements.

The following table shows the number of alarms of fire each month:

January, 30; February, 32; March, 27; April, 42; May, 50; June, 58; July, 58; August, 33; September, 21; October, 51; November, 36; December, 27. Total, 465.

# SERVICE OF THE DEPARTMENT FOR 1900.

	Number of alarms attended.	Number of hours worked.	Feet of hose laid.	Hours of hydrants in use	Number of extinguishers used.	Number of chemical tanks used.	Feet of ladders raised.	Hours engines worked.	Number of covers used.
Engine									
"	1	54 $\frac{1}{2}$	4,100	11 $\frac{1}{2}$	7			5	
"	2	56 $\frac{1}{2}$	9,250	23 $\frac{1}{4}$	15			5 $\frac{3}{4}$	
"	3	124 $\frac{1}{4}$	8,150	23	11			6 $\frac{3}{4}$	
"	4	107	7,450	11 $\frac{1}{4}$	15			6 $\frac{1}{2}$	
"	5	77	7,250	59 $\frac{1}{2}$	58		105	10	
"	6	117	13,300	18 $\frac{1}{4}$	10			11 $\frac{1}{4}$	
Hose									
"	7	92 $\frac{1}{2}$	8,700	26	24				
"	8	81	11,250	18 $\frac{1}{4}$	33				
"	9	71 $\frac{3}{4}$	9,150	39 $\frac{1}{2}$	17				
"	10	87 $\frac{1}{2}$	10,600	5 $\frac{1}{4}$	4				
"	11	29	2,100		8				
Truck									
"	1	41 $\frac{1}{4}$				54	510		
"	2	115 $\frac{3}{4}$				51	1,630		
"	3	180 $\frac{1}{2}$					1,942		
"	4	75 $\frac{1}{2}$					564		
Protective		183			88		40		457
		1,494 $\frac{1}{4}$	91 300	260 $\frac{3}{4}$	290	105	4,793	45 $\frac{1}{4}$	457

There have been no deaths and only ten men slightly injured during the past year: S. R. Pendexter, T. H. Rogers and J. J. Murry, Engine 6; Captain Hilliard and S. A. Pickering, Truck 2; R. W. Stickney, Truck 4; J. E. Shea, Engine 1; H. E. Wilkins, Truck 3; L. C. Brainard, Engine 3; N. Bishop, Truck 4.

There were only three deaths by burning: January 29, Miss Martha Wilson, clothes set fire by lamp upset; December 15, Ann Riley, candle set bed on fire; December 30, Mrs. Cora Nudd, clothes set fire with a match.

#### LOWELL FIREMEN'S FUND ASSOCIATION.

This benevolent association was organized December 17, 1885, for the purpose of furnishing relief to such of its members as should receive injuries while in the discharge of their duties. The income is derived from an annual assessment upon each member and by donations from citizens and others, and in behalf of the members of the association I would return thanks to all those who have aided us in the past.

The following donations have been received the past year:

J. A. Coram.....	\$100 00
W. I. Marshall ( Tewksbury ).....	25 00
American Woolen Co. ( Dracut ).....	100 00
Yorick Club.....	25 00
M. F. Gookin ( Tewksbury ).....	25 00
John Davis ( Tewksbury ).....	25 00
Net profits on ball .....	826 63

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Total..... \$1,126 63

The following statement shows the amount standing to the credit of the association, December 31, 1900:

Balance on hand Dec. 31, 1899.....	\$20,105 30
Cash received to Dec. 31, 1900.....	2,440 59

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Total.....	\$22,545 89
Paid out to Dec. 31, 1900 .....	624 11

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On hand Dec. 31, 1900..... \$21,921 78

In conclusion I wish to thank my Board of Engineers, officers and members of the department for their promptness and efficiency in the performance of their duties. To the Mayor and City Council, Clerk, Auditor, Treasurer, Superintendents of the different departments, and all others who have in any way assisted me in the discharge of my duties, I extend my sincere thanks.

Respectfully submitted,

EDWARD S. HOSMER,

Chief of Fire Department.



Schedule of all the Fires which occurred in the City of Lowell during the Year ending December 31, 1900.

[illegible]



Schedule of all the Fires which occurred in the City of Lowell during the Year ending December 31, 1900.

Date	Time	Signal	Recall	Location.	Wood,Brick or Stone	Owned by	Occupied by	Occupied as	Amt. of Damage	Amt. of Insurance	Am't Ins. Paid	Cause of Fire	Remarks	
Jan. 1	3 50 a m	Tel.		Dracut	Wood	E. J. Whitman	E. J. Whitman	Stable				Unknown	Out of city, 4 horses burned	
2	7 27 p m	83	7 36 p m	Smith st.	Brick	Shaw Stocking Co.	Shaw Stocking Co.	Singeing room	\$ 453 78	\$50,000	\$ 453 78	Combustion		
4	5 30 a m	Tel.		Church st.	Wood	W. Clifford	W. Clifford	Dye house				Roller smoking		
7	2 44 a m	25		Merrimack st.	"	A. C. Wheelock	"	Fruit and confectionery	830 32	850	830 32	Same fire		
8	5 54 a m	54	6 06 a m	Rock st.	Brick	G. B. White	Several	Manufacturing				Overheated thermostat		
9	6 08 p m	13	6 17 p m	Page st.	"	W. B. Spaulding	Miss H. A. Buffum	Rooms				Hot stove set drapery		
13	11 50 p m	24	12 01 a m	Middlesex st.	Wood	E. Sanborn	D. Sullivan	Stores and rooms	20 00	1,000	20 00	Oil lamp, bed and rum		
14	1 36 p m	82	1 52 p m	Royal st.	Brick	M. Martin	M. Martin	Dwelling	198 70	3,100	198 70	Smoking set clothes	Out of the city	
16	9 57 a m	7	7 06 p m	Middlesex st.	Brick	W. B. Spaulding	Several	Stores and rooms				Unknown		
17	6 59 p m	37	7 06 p m	Whipple st.	Wood	M. Couper	"	Dwelling				Roller smoking		
18	3 44 p m	37	3 52 p m	Whipple st.	Wood	R. Harkins	"	Dwelling				Hot stove set clothes		
19	3 59 p m	113	5 04 p m	Amory st.	Brick	Boott Corp.	"	Spinning room	18,779 61	960,000	18,779 61	Overheated mule head		
20	3 42 p m	Aut.		Walker st.	"	"	"	Manufacturing				Same fire		
21	7 13 p m	"		E Merrimack st.	Wood	H. M. Ordway	Thompson & Co.	Market	115 18	10,600	115 18	Overheated thermostat		
22	6 50 p m	25	7 26 p m	Tilden st.	Wood	J. H. Beaulieu	Several	Stores and dwelling	53 24	1,800	13 24	Gas jet and trimmings		
23	6 58 p m	7	6 58 p m	Market st.	Brick	J. F. O'Donnell	O. Carney	Blacksmith	10 00	400	10 00	Defective stovepipe		
24	2 21 p m	Aut.		Hyacinth st.	Wood	F. P. Cheney	H. E. Noyes & Son	Potato car				Wires crossed		
25	11 18 a m	Tel.		Gorham st.	Wood	J. McAnn Est.	Car	Market				Hot stove set car		
26	2 32 a m	121	3 30 a m	Meadowcroft st.	"	Howe Lumber Co.	Howe Lumber Co.	Office	50 00			Carbon of acid		
27	12 45 p m	222		Lawrence st.	Wood	J. H. Walker	Several	Dwelling	116 64	275	116 64	Spitting with sawdust	Out of the city	
28	8 06 p m	65	9 14 a m	Middlesex st.	Wood	R. D. Holt	Several	Dwelling				Chimney		
29	7 45 a m	222	8 20 p m	Lakeview ave.	"	H. O Sullivan	Several	Shoe shop				Supposed incendiary		
30	7 45 a m	Tel.		Cross st ave	Wood	J. H. Walker	Several	Dwelling				Chimney		
31	11 48 a m	Still		Lawrence st.	Wood	D. Benson Est.	Several	Line casks				No school		
Feb. 1	6 48 a m	Tel.		Central st.	Brick	J. T. Stevens	H. Raynes	Jeweler				Water pipe burst		
2	11 38 a m	Still		Merrimack st.	"	J. T. Stevens	Several	Furniture	25,806 58	18,250	17,794 00	Unknown		
3	11 58 a m	Tel.	4 37 p m	"	"	M. Doyle	"	Furniture	104 90	5,000	104 90	Unknown		
4	8 52 p m	72	10 07 p m	"	"	A. C. Wheelock	Several	Dwelling	60 00	2,000	60 00	Hot stove set partition		
5	3 20 a m	154	3 32 a m	Middlesex pl.	Wood	J. Martin	"	Store and dwelling	31 00	5,000	31 00	Sawdust spittoon		
6	8 32 p m	Still		Willie st.	"	Mary Nesmith	"	Dwelling				Smoking in bed		
7	8 32 p m	Tel.		Suffolk st.	"	A. C. Wheelock	"	"				Same fire		
8	7 45 p m	222		Chapel st.	"	"	"	Stable				Chimney		
9	8 35 a m	Tel.		Pawtucket st.	Wood	Ayer Home	Several	Dwelling				No school		
10	7 45 p m	216	9 52 p m	Lawrence st.	"	T. Cooney	"	Dwelling				Combustion of manure		
11	6 45 p m	206		"	"	J. L. Leighton	"	Dwelling				Chimney		
12	9 46 p m	206		"	"	Ayer Home	Several	Stable				Thawing water pipe		
13	7 20 a m	Still		Pawtucket st.	"	D. J. Murphy	Several	Stores and dwelling	6,001 38	8,350	5,713 88	Bakers' oven		
14	8 22 a m	"		Suffolk st.	"	"	"	"				Combustion of manure		
15	3 18 a m	125	6 06 a m	"	"	"	"	"				Same fire		
16	3 18 a m	2nd 125	6 06 a m	"	"	"	"	"				"		
17	6 05 p m	222		Ash st.	Wood	A. G. Thompson	Several	Dwelling	89 00	5,000	84 00	No school		
18	2 35 p m	Tel.		"	"	"	"	"				Combustion of rags		
19	7 45 a m	222		"	"	"	"	"				Same fire		
20	12 45 p m	222		"	"	"	"	"				No school		Out of the city
21	12 45 p m	222		"	"	"	"	"				"		
22	6 05 p m	Still		Pearl st.	Wood	Dave Sullivan	Several	Dwelling	5 00	2,000	5 00	Rats' nest in partition		
23	11 11 p m	Still		Market st.	Brick	C. B. Coburn Est	News Co.	Printing office				Overheated furnace		
24	7 10 a m	Tel.		Davidson st.	Wood	P. Kelley	Several	Dwelling	2,183 91	60,000	2,183 91	Chimney		
25	11 28 a m	85	11 50 a m	Pine st.	"	J. A. Coram	J. A. Coram	"				Combustion in waste paper barrels		
26	11 27 a m	Tel.		Bridge st.	"	H. Miller	Rollins & Son	"	1,072 43	10,700	1,072 43	Same fire		
27	3 09 a m	222		"	"	"	"	"				No school		
28	6 05 p m	222		E Merrimack st.	Wood	H. M. Ordway	Several	Stores and dwelling				Smoke		
29	1 45 p m	131	1 59 p m	Adams st.	Brick	C. O'Hearn Est.	"	Dwelling	5 18	3,000	4 93	Bed, unknown		
30	9 30 a m	125	9 37 a m	Cabot st.	Wood	Sabra Wright	"	Stores and dwelling				Chimney		
31	11 05 a m	Still		Rockdale ave.	Brick	J. H. Wright	T. F. Welsh	"				Hot stove set floor		
Mar. 1	12 45 p m	222		Lincoln st.	Wood	H. J. Denovan	Frank Parker	Bobbin m'f'g				Hot stove set floor		
2	2 37 p m	34	12 54 p m	Market st.	Brick	Southwick Est.	H. Fla	Grocer	75 00	4,500	75 00	Furnace set floor		
3	12 44 p m	12		Fourth ave.	Wood	Adolph Lamontagne	Unoccupied	Dwelling	1 25	1,600	1 25	Hot stove set partition	Out of the city	
4	12 45 p m	222		"	"	"	"	"				No school		
5	12 45 p m	222		"	"	"	"	"				"		
6	12 45 p m	222		"	"	"	"	"				"		
7	12 45 p m	222		"	"	"	"	"				"		
8	12 45 p m	222		"	"	"	"	"				"		
9	12 45 p m	222		"	"	"	"	"				"		
10	12 45 p m	222		"	"	"	"	"				"		
11	12 45 p m	222		"	"	"	"	"				"		
12	12 45 p m	222		"	"	"	"	"				"		
13	12 45 p m	222		"	"	"	"	"				"		
14	12 45 p m	222		"	"	"	"	"				"		
Mar. 1	12 45 p m	222		Cabot st.	Brick	Sabra Wright	Alpine Club	Dwelling				Bed, supposed incendiary		
2	12 45 p m	Still		Central st.	Wood	Wm. O. Fiske Est.	"	Dwelling	3,117 66	47,415	3,117 66	Unknown, caught in closet		
3	7 45 p m	53	7 47 p m	Williams st.	"	Mrs. McBride	Several	Dwelling	83 00	5,000	33 00	Clothes in closet		
4	7 38 a m	53	8 19 a m	Willis st.	"	J. Smith Est	H. E. Noyes & Son	Potato car				Hot ashes in closet		
5	7 08 a m	145		Western ave	Wood	B. & M. R. B	Several	Dwelling				Hot stove set bags		
6	10 10 a m	Tel.		Western ave	Wood	J. Smith Est	T. Conway	Storehouse	5 60	6 30	5 10	Stove smoking		
7	8 32 p m	Still		Camden st.	"	P. Quinn	Several	Dwelling				Combustion		
8	8 32 p m	Tel.		Salem st.	"	"	"	"				Chimney		
9	8 35 p m	Still		Wamsit st.	"	Mellen Est.	"	"				"		
10	9 35 p m	75	3 36 a m	Dracut.	"	Merr'k Woolen Co.	"	"				"		
11	7 42 a m	222		"	"	"	"	"				"		
12	7 42 a m	222		"	"	"	"	"				"		
13	7 42 a m													



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Schedule of all the Fires which occurred in the City of Lowell during the Year ending December 31, 1900.—Continued.

[illegible]



Nov.	11.45 a m	Still	1.05 a m	Wood	Ward	John Gray	J. Gray	Dwelling	185 00	6,400	185 00	Chimney
1	11.45 a m	Still	1.05 a m	Wood	Ward	B. F. Riley	B. F. Riley	Wholesale meats	55 63	12,000	55 63	Smoke pipe set partition
2	1.40 p m	5	4.58 p m	Brick	Brick	Swain & Bailey	Swain & Bailey	Dwelling				Defective fireplace
3	1.48 p m	Still	1.48 p m	Wood	Wood	J. Nesmith	J. Nesmith	Dwelling				Hot stove set clothes
4	6.32 p m	Tel.	6.32 p m	Wood	Wood	J. J. Norton	J. J. Norton	Dwelling				Combustion
5	6.32 p m	Tel.	6.32 p m	Wood	Wood	R. Cosello	R. Cosello	Dwelling				Boys set fire
6	4.25 p m	"	4.25 p m	Brick	Brick	F. A. Hildreth Est.	F. A. Hildreth Est.	Clothing				Awning set by fireworks
7	1.06 a m	"	1.06 a m	Wood	Wood	N. Y. N. H. & H. R. K.	N. Y. N. H. & H. R. K.	Coal shed	130 00	24,000	130 00	Combustion of coal
8	1.06 a m	"	1.06 a m	Brick	Brick	W. H. Emery	W. H. Emery	Hotel	15 00	800	15 00	Overheated fireplace
9	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
10	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
11	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
12	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
13	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
14	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
15	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
16	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
17	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
18	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
19	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
20	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
21	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
22	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
23	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
24	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
25	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
26	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
27	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
28	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
29	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
30	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
31	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
32	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
33	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
34	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
35	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
36	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
37	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
38	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
39	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
40	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
41	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
42	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
43	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
44	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
45	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
46	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
47	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
48	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
49	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
50	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
51	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
52	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
53	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
54	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
55	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
56	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
57	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
58	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
59	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
60	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
61	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
62	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
63	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
64	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
65	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
66	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
67	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
68	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
69	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
70	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
71	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
72	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
73	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
74	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
75	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
76	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
77	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
78	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
79	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
80	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
81	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
82	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
83	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
84	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
85	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
86	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
87	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
88	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
89	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
90	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
91	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
92	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
93	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
94	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
95	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
96	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
97	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
98	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
99	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire
100	1.10 a m	Still	1.21 a m	Wood	Wood	J. A. Ver Est.	J. A. Ver Est.	Dwelling				Same fire

**Schedule of all the Unattended Fires which occurred in the City of Lowell during the Year ending December 31, 1900.**

Date 1900	Location	W. or Stone	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insurance	Insurance Paid	Cause of Fire
Jan. 15	Carpet Lane	Brick	Lowell Manufacturing Co.	Mrs. E. Robertson	Dwelling	\$ 5.00	\$ 600	\$ 5.00	Hot ashes in barrel
16	161 1/2 W. Main st.	"	Hamilton Co.	Hamilton Co.	Cotton mill	5,000.00	1,440,000	5,000.00	Hot peatling in mule head
18	Mt. Vernon st.	"	Lowell Hosiery Co.	Lowell Hosiery Co.	Hosiery in f.g.	39.82	40,000	39.82	Gas jet and mule head
Feb. 22	Bridge st.	Wood	Conden Co.	S. E. Bean	Dwelling	97.29	4,000	30.00	Gas jet and evergreen
"	Middle st.	Brick	Hamilton Co.	Hamilton Co.	Dye house	284.00	750,000	18.52	Fire in cotton
"	3 Prescott st.	"	J. C. Ayer Co.	Hamilton Co.	Notelouse	18.52	4,000	18.52	"
"	18 Mt. Vernon st.	"	Southwick Est.	J. W. Pike Co.	Notelouse	50.56	12,574	50.56	Gas jet and decorations
"	28 Sayre st.	Wood	Lucy A. Huntoon	Several	Dwelling	20.00	2,000	20.00	Gas jet and curtain
"	17 Seventh st.	"	S. E. Pierce	S. E. Pierce	"	45.00	1,630	45.00	Oil stove
Mar. 17	Edison st.	"	S. E. Adams	S. E. Adams	"	60.00	8,840	60.00	Gas jet and curtain
"	28 Madison st.	"	S. F. Dillingham	S. F. Dillingham	"	10.15	3,000	10.15	Wood box from stove
"	11 Arlington st.	"	Fred Ayer	Wm. Howard	"	7.80	3,000	7.80	Children and matches
Apr. 14	Canal st.	Brick	Straw & Thompson	Mass. Cotton Mills	Picker room	522.54	1,500	19.50	Gas jet and curtain
"	14 Wentworth ave.	Wood	J. A. Weinbeck	J. A. Weinbeck	Dwelling	23.00	722,000	23.00	Piercion in picker
"	22 School st.	"	C. E. Fish	C. E. Fish	"	18.00	4,880	18.00	Match and towel rack
"	26 Liberty st.	"	W. H. Dorr	W. H. Dorr	"	7.50	3,000	7.50	Gas jet and curtain
"	7 Westford st.	"	W. B. Salding	M. D. Brown	"	37.50	600	37.50	Spark from stove
"	18 Fernald st.	Wood	R. T. Clifford	Dr. C. T. Clifford	"	14.00	4,000	14.00	Gas jet and curtain
"	12 Smith st.	"	N. L. Wheeler	T. A. Adams	"	18.75	1,000	18.75	"
May 12	Smith st.	Brick	Jennie Moir	Jennie Moir	"	3.00	3,000	3.00	Gas jet and wood work
"	22 Weymouth st.	Wood	Shaw Stocking Co.	Shaw Stocking Co.	Hosiery in f.g.	29.80	3,000	29.80	Singeing stockings
June 8	Weymouth st.	"	E. Richardson	Several	Dwelling	8.75	175,000	8.75	Hot ashes in barrel
"	14 Dover st.	"	Mrs. A. H. Forrest	Mrs. A. H. Forrest	"	3.00	2,500	3.00	Gas jet and curtain
"	20 Central st.	"	D. Sweet	G. H. Watson	"	57.00	7,000	57.00	Lightning
"	1 Centre st.	"	B. A. Stevens	E. A. Stevens	"	25.00	7,000	25.00	Gas stove set goods
July 5	Merimack st.	"	M. H. Ho	Mrs. Courtney & Co.	Milinery	21.25	5,000	21.25	Children and matches
"	12 Fenwick st.	"	Dr. G. C. Osgood	R. P. Barnbark	Dwelling	35.00	1,300	35.00	Children and matches
"	16 Beach st.	"	Mrs. A. F. Jewell	Severel	Fruit store	3.00	3,480	3.00	Great stub set ravinging
"	20 Twelfth st.	"	J. Grant	J. Grant	Dwelling	1.50	1,000	1.50	Oil stove exploded
"	22 Crosby st.	"	C. H. Robbins	C. H. Robbins	"	27.50	3,100	27.50	Gas jet and curtain
"	28 Jackson st.	"	D. F. Richardson Est.	Severel	"	10.00	2,000	10.00	"
Aug. 29	"	Wood	Hamilton Corp.	Hamilton Corp.	Cotton mill	125.00	1,400,000	125.00	Children and matches
"	3 Branch st.	"	G. W. Fihn	Dr. J. H. Breton	Office	25.00	1,000	25.00	Gas jet and broom set
"	30 Merimack st.	Brick	Geo. B. White	Highland Odd Fellows	Lodge room	119.00	7,500	119.00	Spark from pipe
Sept. 8	Bridge st.	Wood	W. H. Wilson	L. Linnette	Milinery	175.00	2,500	175.00	Careless smoking
"	8 Appleton st.	Wood	Mass. Cotton Mills	W. H. Wilson	Dwelling	20.00	2,000	20.00	Chepe paper and light
Oct. 8	Albion st.	"	Geo. Fannels	Mass. Cotton Mills	Dwelling	325.76	722,000	325.76	Gas jet and curtain
"	19 H. Baker st.	"	G. F. Penningman	F. M. Day	"	15.50	200	15.50	Picker
"	25 High st.	"	G. Morse	Dr. J. T. McAdams	"	17.55	1,500	17.55	Gas stove set paper
"	6 Merimack st.	Brick	Robbins Est.	G. C. Prince	Picture frames	21.00	1,000	21.00	Defective chimney
Nov. 9	Coburn st.	Wood	M. Daily	J. J. Poyers	Provision store	3.50	11,576	3.50	Gas jet and curtain
"	21 Gibson st.	"	Standard Bottling Co.	Standard Bottling Co.	Mfg. of tomses	21.85	300	21.85	Gas stove and paper
"	23 N. Smith st.	"	C. J. Russell	A. W. Wellenue	"	8.00	6,000	8.00	Gas jet and paper on ceiling
"	10 Suffolk st.	"	Tremont & Suffolk Corp.	Mass. Corp.	Dwelling	50.00	1,000	50.00	Hot stove



Schedule of all the Fires which occurred in the City of Lowell during the Year ending December 31, 1900.—Continued.

Date	Time	Signal	Recall	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amt. of Damage	Amt. of Insurance	Amt. Ins. Paid	Cause of Fire	Remarks
July 1900	5	1:40 a m	258	Tewksbury	Wood	J. Duffie	J. Duffie	Dwelling	\$116 30	\$4,000	\$116 30	Supposed incendiary	Out of the city
	6	10:00 a m	113	Edge st.	Wood	T. Nesmith Est.	Several	Store and dwelling				Unknown	
	6	10:30 a m	10	Stone st.	Wood	O. Donnelly	Several	Dwelling				Oil stove	
	6	10:30 a m	25	Sumner st.	"	J. Saunders	Several	Fruit store	253 62	4,500	253 62	Careless use of matches	
	7	9:25 a m	25	Northwick st.	"	A. C. Wheelock	Several	Dwelling				Smoke from chimney	
	7	12:20 p m	Aut.	Northwick st.	"	J. Peab.	Several	Towel in T. E.	1 40	3,300	1 40	Overheated thermostat	
	9	1:03 a m	46	W. Adams st.	"	J. Fitzgerald	Several	Dwelling	907 24	7,800	907 24	Careless use of match	
	12	11 p m	"	Bridge st.	"	J. E. Fuller	Several	Stores and dwelling	665 24	8,700	665 24	Same fire	
	10	2:55 p m	Still	Exposure	Wood	Merchants Bank	C. H. Gott & Co.	Storehouse	13 50	3,000	13 50	Children and matches	
	11	4:22 p m	"	London st.	"	H. Miller	C. Cowley	Brush				Same fire	
Aug.	11	4:57 p m	Still	E. Meadow rd.	"	S. Ward		Brush				Set by boys	
	11	11:45 a m	"	"	"	Locks & Canals		Grass				Same fire	
	12	4:52 p m	"	First st.	"	"		Grass				Same fire	
	12	9:05 p m	Tel.	Westford st.	Wood	E. S. Hosmer	Several	Dwelling	1 68	3,900	1 68	Gas jet and curtain	
	12	3:40 p m	Still	Lowell Bleachery	Wood	E. B. Pierce	Several	Dwelling				(Combustion	
	13	1:44 p m	296	Northwick st.	Wood	W. A. Haywood	Several	Shed	15 00	3,000	15 00	Spark set rubbish on roof	
	14	12:38 p m	28	G. W. Harris	Brick	G. W. Harris	Several	Dwelling	10 00	2,500	10 00	Hot ashes set shed	
	14	1:45 p m	Still	Old Marshall rd.	"	Mrs. S. Spaulding Est.	Several	Hay and grass				Spark set roof	
	15	4:30 p m	Tel.	Fourth ave.	"	W. H. Emery	Several	Dwelling				Children and matches	
	15	5:52 p m	Still	Wentworth ave.	Wood	S. N. Harris	Several	Dwelling	90 00	2,000	62 00	Clothes in closet	
Sept. 1900	16	8:15 p m	Tel.	Wentworth ave.	"	S. N. Harris	Several	Dwelling				Unknown	
	16	12:30 p m	Tel.	Oak ave.	"	F. A. Fox	Several	Dwelling				Overheated thermostat	
	16	6:15 p m	Aut.	Shed st.	"	F. B. Shedd	Several	Dwelling				Overheated thermostat	
	17	6:25 p m	Aut.	W. Adams st.	"	F. B. Shedd	Several	Dwelling				Overheated thermostat	
	17	6:25 p m	Aut.	W. Adams st.	"	F. B. Shedd	Several	Dwelling				Overheated thermostat	
	17	6:25 p m	Aut.	W. Adams st.	"	F. B. Shedd	Several	Dwelling				Overheated thermostat	
	17	6:25 p m	Aut.	W. Adams st.	"	F. B. Shedd	Several	Dwelling				Overheated thermostat	
	17	6:25 p m	Aut.	W. Adams st.	"	F. B. Shedd	Several	Dwelling				Overheated thermostat	
	17	6:25 p m	Aut.	W. Adams st.	"	F. B. Shedd	Several	Dwelling				Overheated thermostat	
	17	6:25 p m	Aut.	W. Adams st.	"	F. B. Shedd	Several	Dwelling				Overheated thermostat	
Aug.	18	12:30 p m	Still	Bridge st.	"	City		Bridge				Children set tree	
	18	1:05 a m	Still	Pawtucket st.	Wood	W. H. Emery	W. H. Emery	Stable				Supposed incendiary	Out of the city
	18	12:25 a m	Tel.	Dracut.	Brick	A. L. Brooks Est.	Pratt & Forest	Planing mill				Spark set sawdust in basement	
	18	7:55 p m	Tel.	Dutton st.	"	"	"	"				Spark set sawdust on roof	
	18	8:57 p m	"	"	"	Locks & Canals	Several	Dwelling	10 00	7,300 00	10 00	Smoking set lounge	
	18	4:20 p m	Still	King st.	Wood	S. Parsons Est.	Several	Dwelling				Unknown	
	18	4:22 p m	Still	Old Meadow rd.	Wood	M. Farrell	Several	Dwelling				Unknown	
	18	7:45 p m	Tel.	Dracut	Wood	Several	Unoccupied	Stable				Unknown	
	18	5:10 p m	"	Varnum ave.	Wood	B. & M. H. R.	Unoccupied	Hotel	45 00	6,000	45 00	Spark from locomotive	
	18	6:45 p m	"	Middlesex st.	"	S. E. Fitch	Unoccupied	Hotel				Brush and grass	
Sept. 1900	18	3:00 a m	Tel.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
Oct.	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
Nov.	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	
	18	2:50 a m	Aut.	Varnum ave.	Wood	S. E. Fitch	Unoccupied	Hotel				Overheated thermostat	





# FIRE DEPARTMENT,

JANUARY 1, 1901.

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## CHIEF ENGINEER.

EDWARD S. HOSMER      } Office, Palmer St. Engine House  
                                     } Residence, 202 Westford Street

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## FIRST ASSISTANT ENGINEER.

James F. Norton      .      .      Residence, 22 Ames Street

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## ASSISTANT ENGINEERS.

George F. Salmon      .      Residence, 95 Mt. Washington Street  
Edward Meloy      .      .      Residence, 30 Fort Hill Avenue  
Henry W. Burton      .      .      Residence, Kimball Avenue

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## CHIEF'S DRIVER.

H. B. Sanders      .      Residence, Palmer Street Engine House

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## TELEGRAPH OPERATOR.

Henry C. Fernald      .      Residence, Palmer Street Engine House

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## COMMITTEE ON FIRE DEPARTMENT, 1900.

Aldermen Carmichael and Whittet, Councilmen Bean, McElroy  
and Markham.

## ENGINE COMPANY No. 1.

## TWELVE MEMBERS.

HOUSE ON GORHAM STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined Dept.	Residence.
15...	Captain .....	C. D. Foley.....	46	Carpenter .....	June, 1879...	31 Newhall Street
11...	Lieutenant ...	T. W. Collins.....	44	Permanent ....	April, 1884...	Engine House
1...	Clerk .....	Geo. W. Lovett.....	50	Driver, Wagon.	Dec., 1875...	Engine House
119...	Engineer.....	J. W. Jantzen.....	47	Permanent ....	Feb., 1884...	Engine House
12...	Driver .....	J. J. Lowney.....	32	Driver, Engine.	July, 1892...	Engine House
17...	Ass't Engineer	T. McNamara .....	56	Machinist .....	April, 1884...	740 Lawrence Street
19...	Hoseman ....	J. A. Shea.....	25	Plasterer .....	Dec., 1897...	28 Kidder Street
16...	Hoseman ....	T. Carruthers.....	55	Stamper.....	April, 1884...	Engine House
14...	Hoseman ....	P. Curtin.....	48	Moulder.....	May, 1874...	43 Abbott Street
13...	Hoseman ....	J. E. Burns.....	31	Expert .....	Sept., 1897...	14 Carter Street
18...	Hoseman ....	Robt. Oatley .....	39	Laborer .....	Dec., 1897...	82 Blossom Street
10...	Hoseman ....	Wm. H. Kirkpatrick.	31	Machinist .....	Jan., 1893...	Engine House
...	Substitute....	J. H. Gray.....	35	Lather .....	Feb., 1899...	23 Ellsworth Street
...	Substitute....	M. J. O'Connor.....	36	Clerk .....	Jan., 1900...	900 Gorham Street

## Schedule of Property

Belonging to the City, in care of Engine Company No. 1.

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Engine built by Union Machine Company, Fitchburg, Mass.; has two double-acting steam cylinders, 7 1-8 inches in diameter, 8-inch stroke, two double-acting pumps, 4 3-8 inches in diameter, arranged to work separately or together; weight when loaded, 7,180 pounds; 1 one-horse hose wagon built by Abbott-Downing Co., Concord, N. H.; 4 horses, 1 set double and 3 single harnesses, 1 pair lead bars, 5 blankets, hose sleigh, fuel wagon, four-way chuck, branch connection; 3 pipes with stop nozzles, 12 1-2 inch caps, 1 5x2 1-2 inch reducer, 4 small reducers, 6 spanners, 8 lanterns, 4 wrenches, 6 ladder straps, 2 bars, 2 axes, bucket, 1,750 feet 2 1-2 inch cotton hose, 100 feet 1-inch rubber hose, set blocks, extinguisher, 6 beds and bedding, 1 mirror, 2 bureaus, 18 chairs, 3 shovels, 1 fork, 4 brooms, 30 feet of rope, 2 pails, 1 12-foot ladder, stepladder, steam boiler, coal hod, 2 ash cans, 4 boxes, 2 blocks, jack screw, carriage jack, copper goose neck, basket, work bench, vise, chisel, pair shafts, hose washer, three horse pole, 6 spittoons, 2 oil cans, 26 badges, 12 set buttons, 3 insignia, 3 stable cans, 6 smoke protectors, 12 service hats, and all tools for cleaning horses and repairing engine.

## ENGINE COMPANY No. 2.

## TWELVE MEMBERS.

HOUSE ON BRANCH STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined Dept.	Residence.
2...	Captain .....	H. Boynton .....	49	Permanent .....	April, 1869...	Engine House
21...	Lieutenant ...	F. B. Akers .....	42	Permanent .....	May, 1878...	Engine House
20...	Clerk .....	W. H. Oke .....	35	Driver, Wagon.	Dec., 1893...	Engine House
29...	Engineer .....	C. S. Hibbert .....	54	Permanent .....	Nov., 1865...	Engine House
90...	Driver .....	F. Boynton .....	39	Driver, Engine.	Dec., 1882...	Engine House
28...	Hoseman ....	A. Jamieson .....	42	Painter .....	Dec., 1894...	112 Shaw Street
22...	Ass't Engineer	H. R. Morrison .....	41	Machinist .....	July, 1882...	23 Lawson Street
23...	Hoseman ....	A. F. Prescott .....	23	Clerk .....	June, 1899...	Pine Street
27...	Hoseman ....	A. S. Maynard .....	47	Carpenter .....	Nov., 1884...	Marshall Street
25...	Hoseman ....	C. E. Bugbee .....	39	Painter .....	Dec., 1894...	62 Grove Street
24...	Hoseman ....	F. H. Harris .....	24	Tinsmith .....	Aug. 1899...	Engine House
26...	Hoseman ....	C. E. Alway .....	36	Carpenter .....	Feb., 1889...	3 East Pine Street
...	Substitute....	W. A. Stearns .....	20	Machinist .....	April, 1900...	Branch Street
...	Substitute....	Thos. R. Knight .....	30	Carpenter .....	July, 1900...	Ames Place



### Schedule of Property

Belonging to the City, in care of Engine Company No. 2.

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Engine built by Manchester Locomotive Works, Manchester, N. H. ; weight when loaded, 7,600 pounds ; 6 7-8 inch cylinder, 8-inch stroke, 4 1-2 inch double acting pumps ; two-horse hose wagon built by Leverick & Co., New York ; 1600 feet 2 1-2 inch cotton-hose, 50 feet 3-4 inch rubber hose, hose sleigh, fuel wagon, four-way chuck branch connection, 4 pipes, 6 spanners, 6 ladder straps, 2 hydrant wrenches, axe, 2 bars, jack screw, lead bars, three-horse pole, 6 coal boxes, 12 chairs, 3 mirrors, 3 clocks, work bench, vise, 5 beds and bedding, lathe, heater and tank, steam boiler, 2 sets blocks, 4 ash cans, table, 24 badges, 16 sets buttons, 8 insignia, hose washer, pair skids, pair steps, extinguisher, 3 smoke protectors, 4 stable cans, 12 service hats, and all tools for cleaning horses and repairing engine.

## ENGINE COMPANY No. 3.

## TWELVE MEMBERS.

HOUSE ON PALMER STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined Dept.	Residence.
30...	Captain .....	F. Hoyt.....	52	Permanent ....	Aug., 1873...	Engine House
31...	Lieutenant ...	O. A. Knapp.....	36	Permanent ....	July, 1889...	Engine House
32...	Clerk .....	L. C. Brainard.....	42	Driver, Wagon.	Feb., 1889...	Engine House
33...	Engineer.....	M. I. Collins.....	45	Engineer .....	April, 1888...	Engine House
133...	Driver .....	B. C. Reed.....	47	Driver, Engine.	Aug., 1885...	Engine House
34...	Ass't Engineer	J. G. Merchant.....	62	Engineer .....	April, 1887...	268 Westford Street
37...	Hoseman ....	F. E. Roark.....	51	Lighter .....	July, 1875...	Prince Street
38...	Hoseman ....	G. T. Halstead.....	43	Permanent ....	Nov., 1883...	Engine House
35...	Hoseman ....	J. D. Ismond.....	33	Packer .....	Mar., 1894...	280 High Street
32...	Hoseman ....	F. E. Turner.....	37	Clerk .....	July, 1892...	27 Ralph Street
36...	Hoseman ....	A. E. Dearth.....	40	Machinist .....	June, 1891...	12 Broadway
39...	Hoseman ....	M. C. Rowell.....	37	Janitor .....	April, 1894...	80 Third Street
...	Substitute....	A. Dore.....	24	Carpenter .....	Feb., 1898...	Merrimack Street
...	Substitute....	F. A. Farrell.....	32	Plumber.....	April, 1898...	Market Street

## Schedule of Property

Belonging to the City, in care of Engine Company No. 3.

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Engine built by Manchester Locomotive Works, Manchester, N. H.; weight when loaded, 9,300 pounds; 35 feet suction hose with hydrant couplings, 1 one-horse hose wagon, 5 horses, set three horse hitch and set double harnesses, 4 halters, 5 blankets, 1,200 feet 2 1-2 inch cotton hose, four-way chuck and reducer, reducer and cap, six-way Lowry chuck, 4 pipes, 2 stop nozzles, 2 branch connections, 2 hydrant wrenches, 4 spanners, bar, shovel, 4 ladder straps, 6 lanterns, 3 stable cans, 6 beds and bedding, 2 mirrors, 2 clocks, 15 chairs, hose rope, monkey wrench, carriage jack, 26 badges, 12 sets buttons, 8 insignia, hose washer, extinguisher, 3 smoke protectors, 12 service hats, and all tools for cleaning horses and repairing engine.

## ENGINE COMPANY No. 4.

HOUSE ON HIGH STREET.

## TWELVE MEMBERS.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
40...	Captain .....	J. E. Burns.....	40	Permanent ....	Feb.,	1882...	Engine House
42...	Lieutenant ...	J. E. Sullivan.....	48	Permanent ....	May,	1883...	Engine House
4...	Clerk .....	W. King.....	58	Driver, Wagon.	Nov.,	1863...	Engine House
41...	Driver .....	J. J. Harrington....	50	Driver, Engine.	Nov.,	1869...	Engine House
134...	Engineer.....	F. F. Prescott.....	41	Engineer .....	July,	1893...	Engine House
44...	Hoseman ....	M. Connors.....	50	Plasterer .....	Mar.,	1883...	Pleasant Street
43...	Hoseman ....	W. T. Dolan.....	29	Plumber.....	Nov.,	1894...	Concord Street
46...	Hoseman ....	J. H. Tracy.....	34	Clerk .....	Sept.,	1886...	Concord Street
48...	Ass't Engineer	M. Eagan .....	37	Finisher.....	Dec.,	1888...	Concord Street
49...	Hoseman ....	B. F. Freeman.....	56	Lighter .....	Jan.,	1893...	Fort Hill Avenue
47...	Hoseman ....	J. M. G. Burns.....	28	Clerk .....	July,	1897...	Engine House
45...	Hoseman ....	J. E. Brown.....	27	Clerk .....	Aug.,	1897...	31 Fort Hill Ave.
...	Substitute....	S. A. Cowdry.....	25	Electrician ....	April,	1899...	Tyler Street
...	Substitute....	Thos. Bryan.....	29	Leather Worker	July,	1899...	Concord Street

## Schedule of Property

Belonging to the City, in care of Engine Company No. 4.

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Engine built by Manchester Locomotive Works, Manchester, N. H.; weight when loaded, 8,000 pounds; 6 7-8 inch cylinder, 8-inch stroke, 4 1-2 inch double-acting pumps; one two-horse wagon built by Abbott-Downing Co., Concord, N. H.; 5 horses, set three-horse hitch and set double harnesses, 1,500 feet cotton hose, 50 feet rubber hose, carriage jack, 2 clocks, 2 mirrors, table, 16 chairs, 2 dusters, 6 shovels, 4 pails, 5 spittoons, fuel wagon, 6 beds and bedding, bureau, 12 sets buttons, 26 badges, 4 insignia, 12 spanners, 5 ladder straps, jack screw, 7 coal boxes, 50 feet rope, 1 5x2 1-2-inch reducer, hose washer, extinguisher, 5 blankets, bench and vise, steam boiler, heater and boiler, step ladder, three bars, 5 pipes, 2 pairs reducing couplings, three-horse pole, oil tank, four-way chuck, branch connection, 3 ash cans, 4 smoke protectors, set blocks, snow shovels, brooms, 12 service hats, and all tools for cleaning horses and repairing engine.



## ENGINE COMPANY No. 5.

## TWELVE MEMBERS.

HOUSE, MAMMOTH ROAD, PAWTUCKETVILLE.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
152...	Captain .....	E. W. Bartlett .....	53	Permanent ....	May, 1883...		Engine House
52...	Lieutenant ...	J. H. Joyce .....	58	Permanent ....	June, 1864...		Engine House
5...	Driver & Clerk	G. F. Flint .....	39	Permanent ....	Aug., 1892...		Engine House
51...	Engineer .....	C. L. Brown .....	46	Permanent ....	Jan., 1893...		Engine House
53...	Ass't Engineer	J. P. Fowler .....	52	Carpenter .....	May, 1883...		Mammoth Road
55...	Hoseman .....	E. F. Farrell .....	25	Plumber .....	Dec., 1898...		Crawford Street
50...	Driver .....	S. S. Page .....	52	Driver, Engine.	May, 1888...		Engine House
58...	Hoseman ....	J. J. Frazier .....	44	Moulder .....	June, 1892...		Varnum Avenue
56...	Hoseman ....	R. B. Seeton .....	51	Brass Finisher.	Aug., 1892...		Eighth Avenue
54...	Hoseman ....	J. J. McMannimon..	29	Machinist .....	Jan., 1893...		Second Avenue
59...	Hoseman ....	A. H. Vinning .....	55	Carpenter .....	Mar., 1893...		Mammoth Road
57...	Hoseman ....	R. W. Broadbent....	33	Teamster .....	Mar., 1893...		Liberty Street
...	Substitute....	C. A. Campbell .....	26	Teamster .....	Oct., 1899...		Mammoth Road
...	Substitute....	W. F. Tighe .....	26	Leather Worker	Nov., 1900...		Second Avenue



## Schedule of Property

Belonging to the City, in care of Engine Company No. 5.

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Steamer built by the American Fire Engine Company, Seneca Falls, N. Y.; weighs 7,350 pounds; two-horse hose wagon built by J. H. Swett, Lowell, Mass.; weighs 4,300 pounds; 2,400 feet cotton hose, 50 feet rubber hose, four-way chuck, 3 hydrant wrenches, carriage jack, 6 horses, 6 harnesses, 2 clocks, 2 mirrors, table, 24 chairs, 2 dusters, 7 shovels, 4 pails, 6 spittoons, 7 beds and bedding, 26 badges, 12 sets buttons, 8 insignia, 4 ash cans, 4 stable cans, 5 ladders, 6 spanners, 4 ladder straps, jack screw, 6 coal boxes, hose washer, 2 extinguishers, work bench and vise, 3 hooks, 4 pipes, 3 axes, 6 lanterns, 2 three-horse poles, 6 horse blankets, fuel wagon, 2 monkey wrenches, 4 hay hooks, 6 smoke protectors, 60 gallon oil tank, 12 service hats, and all tools for cleaning horses and repairing engine.

## ENGINE COMPANY No. 6.

TWELVE MEMBERS.

HOUSE ON FLETCHER STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence
135...	Captain .....	D. J. Hurley .....	49	Permanent .....	May,	1879...	Engine House
63...	Lieutenant ...	E. W. Fletcher .....	47	Moulder .....	June,	1874...	L. M. S. Corp.
6...	Clerk .....	J. A. Fletcher .....	44	Driver, Wagon.	May,	1880...	Engine House
61...	Hoseman ....	T. H. Rogers .....	49	Permanent ....	Dec.,	1888...	Engine House
64...	Hoseman ....	E. F. Saunders .....	35	Baker .....	Feb.,	1890...	Mt. Washington St.
65...	Hoseman ....	J. J. Murray .....	49	Cabinet Maker.	July,	1885...	Bowers Street
60...	Driver .....	S. R. Pendexter .....	48	Driver, Engine.	June,	1892...	Engine House
62...	Engineer .....	F. G. Collins .....	42	Permanent .....	Dec.,	1889...	Engine House
67...	Hoseman ....	E. A. Walsh .....	29	Plumber .....	June,	1895...	Engine House
69...	Ass't Engineer	E. Perham .....	40	Box Maker .....	July,	1892...	Common Street
66...	Hoseman ....	R. E. Burns .....	35	Cabinet Maker.	Dec.,	1888...	Nichols Street
79...	Hoseman ....	T. F. Maguire .....	34	Clerk .....	July,	1892...	Butterfield Street
...	Substitute....	T. F. Saunders .....	29	Horse Shoer....	Sept.,	1895...	Butterfield Street
...	Substitute....	J. J. Saunders .....	28	Plumber .....	Jan.,	1899...	Tremont Street

## Schedule of Property

Belonging to the City, in care of Engine Company No. 6.

---

Engine built by Manchester Locomotive Works, Manchester, N. H.; weight when loaded, 9,300 pounds; 36 feet suction hose, hydrant couplings, one-horse hose wagon, 4 horses, 5 harnesses, bridle, extinguisher, 1,750 feet cotton hose, 4 pipes, 2 stop nozzles, 10 spanners, 2 and 4-way chuck, 2-way connection with valves, reducer, 3 brooms, 4 hydrant wrenches, carriage jack, 3 pails, 3 stable cans, jack screw, 3 ladder straps, 5 blankets, 2 dusters, ladder, step ladder, brush, 11 lanterns, 8 spittoons, 2 shovels, 19 chairs, 7 beds and bedding, 5 mops, window brush, table, 2 dust pans, 2 axes, 1 ash can, 2 clocks, 3 mirrors, gas stove, steam boiler, 26 badges, 12 sets buttons, 4 insignia, hose washer, 1 1-2 tons steamer coal, 2 benches and vises, 100 feet hose, oil tank, fork, 6 smoke protectors, 12 service hats, and all tools for cleaning horses and repairing engine.

## HOSE COMPANY No. 7.

## NINE MEMBERS.

HOUSE ON CENTRAL STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined Dept.	Residence.
72...	Captain .....	E. Cunningham.....	53	Steam Fitter....	Aug., 1866...	20 Ames Street
70...	Lieutenant ...	E. O'Connell .....	43	Permanent ....	Aug., 1878...	Hose House
7...	Clerk .....	J. Sullivan .....	34	Driver, Wagon.	July, 1892...	Hose House
73...	Hoseman.....	P. Emerson.....	42	Carpenter .....	Feb., 1883...	Lawrence Street
74...	Hoseman.....	E. Crowley.....	46	Coppersmith....	Feb., 1883...	Hose House
71...	Hoseman.....	P. McLaughlin.....	45	Permanent ....	Aug., 1888...	Hose House
77...	Hoseman.....	J. J. Emerson.....	38	Upholsterer ...	July, 1889...	4 Livingston Street
75...	Hoseman.....	T. H. Welch.....	43	Permanent ....	Nov., 1887...	Engine House
76...	Hoseman.....	Peter Sheehan .....	32	Clerk .....	Dec., 1897...	11 Lyon Street
...	Substitute....	J. P. Moore.....	28	Trimmer .....	Feb., 1898...	560 Gorham Street
...	Substitute....	J. Angelo.....	31	Steam Fitter....	Aug., 1900...	51 Pond Street

## Schedule of Property

Belonging to the City, in care of Hose Company No. 7.

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One two-horse hose carriage with pole and shafts, hose sleigh, 2 horses, 2 blankets, set double harnesses, 2 forks, 2 brooms, 1,200 feet cotton hose, 50 feet rubber hose, 2 pipes and stop nozzles, 6 lanterns, 2 axes, four-way and two-way chuck, 2 wrenches, reducer, coupling, cap, 4 spanners, 4 ladder straps, branch connection, 2 dusters, carriage jack, 2 stable cans, 5 beds and bedding, 12 chairs, carpet, 6 spittoons, 2 clocks, 2 oil cans, extinguisher, 4 shovels, 2 pails, 2 mirrors, hose washer, pair steps, wagon, 3 bridles, table, 20 badges, 9 sets buttons, 4 insignia, boiler, 6 smoke protectors, 9 service hats, and all tools for cleaning horses.

## HOSE COMPANY No. 8.

## NINE MEMBERS.

HOUSE ON MERRIMACK STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined Dept.	Residence.
150...	Captain .....	D. H. Crowley.....	48	Permanent ....	April, 1885...	Hose House
86...	Lieutenant ...	W. J. Flynn.....	40	Permanent ....	Feb., 1890...	Hose House
87...	Hoseman.....	W. F. Tighe.....	38	Plumber.....	Sept., 1892...	28 Willie Street
88...	Hoseman.....	W. F. Dana .....	36	Machinist .....	Oct., 1888...	365 L. M. S. Corp.
151...	Clerk .....	B. J. Dunn .....	38	Driver, Carriage	Feb., 1890...	Hose House
85...	Hoseman.....	T. F. Lynch .....	34	.....	May, 1869...	49 Kirk Street
83...	Hoseman.....	T. F. Welch.....	50	Cabinet Maker.	June, 1884...	20 Rockdale Ave
136...	Hoseman.....	J. F. Convery.....	47	Carpenter .....	Jan., 1893...	39 Adams Street
89...	Hoseman.....	C. Collins .....	30	Machinist .....	Aug., 1894...	44 Common Street
...	Substitute....	J. Bernier .....	..	Insurance Agt.	May, 1900...	.....
...	Substitute....	W. M. Barrett .....	33	Grocer .....	Aug., 1898...	137 Salem Street



### Schedule of Property

Belonging to the City, in care of Hose Company No. 8.

---

Two-horse hose carriage, two-horse hose sleigh, 2 horses, 1 set double harnesses, 2 bridles, 2 blankets, extinguisher, 1,650 feet cotton hose, 2 pipes and shut-off nozzles, 6 spanners, four-way chuck, bar, axe, 3 ladder straps, 3 mops, 3 wrenches, 2 stable cans, 2 dust pans, carriage jack, 3 brooms, 2 ash cans, step ladder, 3 shovels, 6 cuspidores, 2 clocks, water cooler, 2 mirrors, 2 pails, 2 dusters, rubber mat, 11 chairs, 5 beds and bedding, table, 5 rugs, boiler, 20 badges, 9 sets buttons, 4 insignia, window brush, scrub brush, hose washer, half-peck measure, 2 forks, 50 feet rubber hose, 4 lanterns, 5 smoke protectors, 9 service hats, and all tools for cleaning horses.

## HOSE COMPANY No. 9.

## NINE MEMBERS.

HOUSE ON LINCOLN STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
91...	Captain.....	J. Baxter.....	42	Permanent ....	July, 1883..		Hose Hose
92...	Lieutenant..	P. S. Webster .....	53	Permanent ....	May, 1884..		Hose House
93...	Clerk.....	G. H. Chapman.....	45	Driver, Wagon.	May, 1885..		Hose House
99...	Hoseman ...	J. M. Coleman.....	24	Operative .....	Aug., 1897..		135 Lincoln Street
94...	Hoseman ...	P. J. Clune .....	40	Machinist .....	Nov., 1890..		10 Ervin Street
95...	Hoseman ...	C. A. Rock.....	41	Grain Dealer...	May, 1893..		32 Washington St.
96...	Hoseman ...	E. F. Grady.....	39	Folder .....	May, 1893..		282 Lincoln Street
97...	Hoseman ...	F. A. Kappler .....	42	Carpenter .....	May, 1893..		1413 Gorham Street
98...	Hoseman ...	D. F. Conroy.....	29	Clerk .....	Jan., 1894..		4 Carter Place
...	Substitute ..	P. Kiernan .....	25	Plumber .....	Aug., 1899..		211 Lincoln Street
...	Substitute ..	F. H. Crosby.....	32	Plasterer .....	May, 1900..		111 Moore Street

## Schedule of Property

Belonging to the City, in care of Hose Company No. 9.

---

One-horse hose wagon, sleigh, 2 horses, 2 harnesses, 2 blankets, four-way chuck, 2 wrenches, 2 pipe and stop nozzles, 5 spanners, bar, 3 ladder straps, 2 lanterns, 1,250 feet cotton hose, 25 feet rubber hose, carriage jack, 2 clocks, mirror, table, 20 chairs, stable can, duster, 3 shovels, 3 pails, 5 spittoons, 6 beds and bedding, 23 badges, 9 sets buttons, 8 insignia, dust pan, brush, 2 brooms, oil can, 7 mats, extinguisher, steam boiler, hose washer, 6 smoke protectors, 9 service hats, and all tools for cleaning horses.

## HOSE COMPANY No. 10.

## NINE MEMBERS.

HOUSE ON FOURTH STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
160...	Captain .....	C. F. Hemenway...	51	Permanent .....	Sept., 1875..		Hose House
163...	Lieutenant ..	F. Mansur .....	51	Carpenter .....	Nov., 1874..		83 Fifth Street
161...	Clerk .....	A. E. Kidder .....	45	Driver, Carriage	Oct., 1887..		Hose House
166...	Hoseman ...	D. Common .....	51	Carpenter .....	Mar., 1896..		Beach Street
164...	Hoseman ...	C. E. Abare .....	26	Laborer .....	Sept., 1897..		58 Fourth Street
165...	Hoseman ...	F. D. Morey .....	36	Carpenter .....	Nov., 1887..		Methuen Street
162...	Hoseman ...	J. McCafferty .....	37	Permanent .....	Nov., 1887..		Hose House
168...	Hoseman ...	Fred Mansur .....	42	Carpenter .....	Oct., 1889..		21 Third Street
167...	Hoseman ...	E. S. Barnes .....	31	Electrician .....	July, 1897..		31 Myrtle Street
...	Substitute ..	C. S. Hoisington...	43	Tinsmith .....	Aug., 1897..		Reed, Cor. Fifth Street
...	Substitute ..	J. J. Baker .....	23	Painter .....	Feb., 1898..		Front Street

### Schedule of Property

Belonging to the City, in care of Hose Company No. 10

---

Two-horse hose carriage, 2 horses, set double harnesses, 2 bridles, 2 blankets, 1,550 feet cotton hose, 25 feet rubber hose, 2 pipes and stop nozzles, reducer, two-way and four-way chuck, branch connection, reducing coupling, cap, 8 spanners, 2 wrenches, 6 lanterns, 2 bars, ladder, axe, carriage jack, stable can, 4 beds and bedding, 20 chairs, table, clock, 2 pails, 2 shovels, 3 brooms, 2 forks, duster, sifter, 4 ash cans, 2 oil cans, 3 spittoons, set blocks, 140 feet rope, pulley, hose sleigh, fuel wagon, steam boiler, pair steps, 6 smoke protectors, 9 sets buttons, 20 badges, 4 insignia, hose washer, 9 service hats, and all tools for cleaning horses.

## HOSE COMPANY No. 11.

## NINE MEMBERS.

HOUSE ON LAWRENCE STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
200...	Captain .....	J. J. Jennings.....	42	Permanent .....	Nov.,	1883..	Hose House
201...	Lieutenant..	W. A. Dolan.....	37	Permanent .....	Jan.,	1888..	Hose House
202...	Clerk .....	J. Bamford.....	42	Driver, Wagon.	Dec.,	1889..	Hose House
203...	Hoseman ...	E. Jennings .....	37	Machinist .....	Jan.,	1893..	859 Lawrence Street
204...	Hoseman ...	W. H. Meloy .....	42	Blacksmith .....	Dec.,	1896..	358 Central Street
205...	Hoseman ...	T. J. Dwyer .....	38	Machinist .....	Jan.,	1893..	534 Central Street
206...	Hoseman ...	George Buck.....	35	Belt Maker.....	Jan.,	1893..	742 Lawrence Street
207...	Hoseman ...	J. J. Doherty.....	38	Fruit Dealer...	Jan.,	1893..	18 Mill Street
208...	Hoseman ...	J. F. Welch .....	35	Piper .....	Jan.,	1893..	417 Lawrence Street
...	Substitute ..	W. J. Sullivan.....	34	Shuttle Maker.	Nov.,	1896..	Lawrence Street
...	Substitute ..	J. Farley.....	33	Barber .....	April	1898..	Lawrence Street



### Schedule of Property

Belonging to the City, in care of Hose Company No. 11.

---

One one-horse hose wagon, 2 horses, 2 harnesses, 2 blankets, extinguisher, 1,500 feet cotton hose, 50 feet rubber hose, 2 pipes and stop nozzles, 4 spanners, four-way chuck, bar, 3 brooms, carriage jack, 2 pails, 2 ladder straps, 2 dusters, 2 brushes, 2 lanterns, 2 pipe holders, wire basket, 1,200 feet 3-4 inch rope, 75 feet 2 inch rope, 12 spittoons, 2 shovels, 18 chairs, 5 beds and bedding, 7 ash cans, 2 clocks, 3 mirrors, steam boiler, 20 badges, 9 sets buttons, 8 insignia, table, dust pan, oil tank, 7 smoke protectors, door mat, 6 rugs, water heater, hose washer, 3 mops, 9 service hats, and all tools for cleaning horses.

## TRUCK COMPANY No. 1.

## TEN MEMBERS.

HOUSE ON LAWRENCE STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
209...	Captain .....	A. H. Gibson.....	44	Permanent ....	Feb, 1884..		Ladder House
210...	Lieutenant..	T. Brown .....	44	Permanent ....	May, 1890..		Ladder House
211...	Clerk .....	T. Dwyer .....	37	Driver, Truck..	Sept., 1888..		Ladder House
212...	Ladderman..	J. O'Hare .....	34	Driver .....	Jan., 1893..		Ladder House
213...	Ladderman..	J. F. McGuinness...	38	Cloth Finisher .	Jan, 1893..		34 Floyd Street
214...	Ladderman..	J. B. Stanton.....	40	Wool Sorter...	Jan., 1893..		17 Newhall Street
215...	Ladderman..	J. D. Finnegan.....	35	Clerk .....	Jan., 1893..		185 Lawrence Street
216...	Ladderman..	J. J. Donohoe.....	42	Teamster .....	Jan., 1893..		74 Agawam Street
218...	Ladderman..	Wm. Gilmore.....	42	Clerk .....	Jan, 1893..		39 Walnut Street
217...	Ladderman..	Wm. Heelon.....	38	Livery Stable..	Mar., 1896..		19 So. Whipple Street
...	Substitute...	C. J. Meehan.....	37	Mattress Maker	Aug., 1894..		Bourne Street
...	Substitute...	W. D. Draper.....	35	Carriage Painter	April, 1898..		Lawrence Street

## Schedule of Property

Belonging to the City, in care of Truck Company No. 1

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Hook and ladder truck, Bangor ladder 65 feet long, one 37 feet, one 25 feet, 4 roof ladders, one 25 feet, one 18 feet, one 12 feet and one 15 feet extension, door opener, wrench, 2 axes, 4 forks, 2 buckets, 3 lanterns, 4 shovels, 4 bars, 3 horses, 3 harnesses, 3 blankets, 100 feet 3-8 inch rope, 18 chairs, 3 brooms, 2 wire baskets, 2 stable cans, 5 beds and bedding, 22 badges, 10 sets buttons, 8 insignia, three-horse pole, 2 pails, whip, 3 mirrors, 2 clocks, 2 dusters, 3 hooks, 6 rugs, 6 smoke protectors, 4 brushes, jack-screw, 12 spittoons, table, 10 service hats, and all tools for cleaning horses.

TRUCK COMPANY No. 2, WITH CHEMICAL ENGINE ATTACHED.  
THIRTEEN MEMBERS. HOUSE ON WESTFORD STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
221...	Captain.....	D. W. Hilliard.....	48	Permanent ....	Aug., 1872..		Truck House
220...	Clerk.....	G. W. Alcott.....	47	Driver, Truck..	Oct., 1877..		Truck House
130...	Driver.....	G. A. Dickey.....	51	Driver, Chemical	Nov., 1888..		Truck House
131...	Ladderman..	H. S. Gardner.....	48	Permanent ....	May, 1874..		Truck House
132...	Ladderman..	E. E. Smith.....	46	Permanent ....	Jan., 1890..		Truck House
123...	Lieutenant..	C. A. Thompson....	56	Carpenter .....	May, 1880..		21 Kimball Avenue
125...	Ladderman..	G. E. Maynard.....	44	Carpenter .....	Oct., 1888..		26 East Pine Street
129...	Ladderman..	L. A. Miller.....	36	Electrician ....	Nov., 1890..		17 Lane Street
127...	Ladderman..	D. D. Libby.....	38	Carpenter .....	June, 1892..		Truck House
128...	Ladderman..	C. Stackpole.....	43	Clerk .....	Jan., 1893..		105 Liberty Street
126...	Ladderman..	S. A. Pickering....	34	Carpenter .....	Nov, 1890..		34 Hastings Street
122...	Ladderman..	A. I. Laughton....	45	Tinsmith .....	Oct., 1891..		517 Westford Street
124...	Ladderman..	Q. A. Foster.....	43	Blacksmith ....	June, 1889..		56 D Street
...	Substitute...	W. S. Holt.....	26	.....	April, 1898..		
...	Substitute...	R. B. Joslin.....	27	.....	April, 1898..		

## Schedule of Property

Belonging to the City, in care of Truck Company No. 2.

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Hook and ladder truck, single tank chemical engine, Boston ladder, 55 feet long, two 35 foot ladders, 5 roof ladders (two 25 feet long and two 22 feet long), two 16-foot ladders, 4 prop hooks, 6 axes, 2 adjustable hooks for roof ladders, 4 shovels, 7 lanterns, 4 forks, 2 rakes, door opener, 3 bars, 300 feet of rope, 4 pails, 3 whips, 2 carriage jacks, 25 chairs, table, 2 mirrors, 3 clocks, 2 dusters, 2 brushes, 100 feet 3-4 inch and 250 feet 1-inch rubber hose, 4 plaster hooks, hay hook, 9 small hooks, 2 wrenches, 3 chain dogs, 3 ash cans, 3 stable cans, set blocks, 8 smoke protectors, 20 feet of 1 1-2 inch rubber hose, 6 spittoons, 4 horses, 2 sets double harnesses, single harness, 5 blankets, 5 halter bridles, three-horse hitch exercise wagon, 8 beds and bedding, 26 badges, 13 sets buttons, 5 insignia, 13 service hats, 1 carboy vitriol, 23 kegs soda, and all tools for cleaning horses.



## TRUCK COMPANY No. 3, WITH CHEMICAL ENGINE ATTACHED.

THIRTEEN MEMBERS.  
HOUSE ON PALMER STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
110...	Captain .....	F. E. Fuller.....	51	Permanent ....	May,	1869..	Truck House
141...	Lieutenant ..	H. F. Harris.....	48	Tinsmith .....	Nov.,	1888..	Truck House
112...	Clerk.....	F. O. J. Townsend..	46	Driver, Truck..	May,	1886..	Truck House
140...	Ladderman..	W. T. Foss.....	36	Permanent ....	April,	1892..	Truck House
113...	Ladderman..	F. W. Simons.....	47	Permanent ....	Sept.,	1872..	Truck House
111...	Ladderman..	R. Carland.....	38	Permanent ....	Oct.,	1893..	Truck House
143...	Driver .....	H. A. Merrill.....	38	Driver Chemical	June,	1884..	Truck House
142...	Ladderman..	P. O'Laughlin .....	39	Steam Fitter...	July,	1893..	.....
116...	Ladderman..	W. P. Maker.....	36	Machinist .....	Sept.,	1888..	L. M. S. Corp.
115...	Ladderman..	D. Leary.....	36	Steam Fitter...	Sept.,	1892..	Wilder Street
118...	Ladderman..	H. E. Wilkins.....	42	Permanent ....	Jan.,	1890..	Truck House
114...	Ladderman..	E. Kirwin.....	51	Steam Fitter...	May,	1871..	Royle Street
117...	Ladderman..	E. H. Dearth.....	36	Permanent ....	Jan.,	1893..	Truck House
...	Substitute...	B. F. Carr.....	32	.....	Feb.,	1899..	.....
...	Substitute...	W. O. Lussier.....	....	.....	April,	1900..	.....



## Schedule of Property

Belonging to the City, in care of Truck Company No. 3.

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Aerial truck, built by Fire Extinguisher Company of Chicago ; two-horse and three-horse hitches, single tank chemical engine, 5 horses, extension ladder, 85 feet, one 55 feet, two 16 feet, one 35 feet, one 30 feet, two 20 feet, one 14 feet, one 24 feet, one 21 feet, one 19 feet, and three 12 foot ladders, door opener, bar, 4 iron stakes, sledge, three 100-foot ropes, 2 forks, 2 shovels, 4 hay forks, 6 bale hooks, hammer, wire cutter, 4 buckets, 8 lanterns, 7 axes, 2 monkey wrenches, carriage jack, jack screw, 250 feet 1-inch rubber hose, 50 feet, 1 1-2 inch cotton hose, 2 spanners, 2 1-2 kegs of soda, carboy of vitriol, 5 blankets, set of three-horse hitch and set of double harnesses, pair lead bars, 2 tables, 28 chairs, 3 clocks, 9 beds and bedding, 6 spittoons, 6 pails, 6 mops, water cooler, 10 rugs, 2 mirrors, 30 feet 3-4 inch hose, 2 dusters, 3 brushes, 6 smoke protectors, 28 badges, 13 sets buttons, 8 insignia, cellar pipe, 13 service hats, and all tools for cleaning horses.

## TRUCK COMPANY No. 4.

## TEN MEMBERS.

HOUSE ON FOURTH STREET.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
102....	Captain.....	H. B. Downs.....	65	Permanent ....	July, 1855..		Truck House
101....	Lieutenant..	J. W. Adams.....	50	Permanent ....	Aug., 1874..		Truck House
100....	Clerk.....	W. L. Peabody.....	53	Driver, Truck..	Nov., 1874..		Truck House
105....	Ladderman..	R. W. Stickney.....	39	Janitor .....	May, 1889..		61 Twelfth Street
104....	Ladderman..	E. Lepiene.....	47	Roll Coverer...	Nov., 1894..		593 Bridge Street
106....	Ladderman..	N. Bishop.....	62	Lighter .....	July, 1855..		28 May Street
103....	Ladderman..	T. McCormick.....	45	Lineman .....	Feb., 1884..		172 Market Street
109....	Ladderman..	T. Conway.....	32	Lineman .....	July, 1893..		106 Concord Street
107....	Ladderman..	G. E. Scofield.....	34	Teamster.....	Dec., 1897..		371 Bridge Street
108....	Ladderman..	W. N. Flagg.....	54	Carpenter .....	Feb., 1884..		75 Whitney Avenue
...	Substitute...	H. Mangan.....	31	Caterer .....	Aug., 1897..		Tenth Street
...	Substitute...	J. C. Kennedy.....	30	Laundryman...	Feb., 1898..		Fifth Street

### Schedule of Property.

Belonging to the City, in care of Truck Company No. 4.

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Hook and ladder truck, 5 extension ladders (55, 35, 25, 20, and 10 feet respectively), 2 roof ladders (18 and 20 feet respectively), 1 single ladder 20 feet long, 4 props, 6 hooks, door opener, jimmie, 4 axes, 4 lanterns, 4 shovels, 3 horses, 3 harnesses, 3 blankets, 10 chairs, broom, 200 feet rope, 2 stable cans, 4 hay hooks, three-horse hitch, pair lead bars, 3 smoke protectors, 3 beds and bedding, 22 badges, 10 sets buttons, 8 insignia, 10 service hats, and all tools for cleaning horses.

## PROTECTIVE COMPANY No. 1.

HOUSE ON WARREN STREET.

## FIVE MEMBERS.

Badge.	Rank.	Name.	Age	Occupation.	Joined	Dept.	Residence.
80...	Captain .....	J. L. Flagg.....	65	Permanent ....	Feb.,	1875..	Protective House
82...	Lieutenant ..	W. H. Halstead.....	56	Permanent ....	May,	1864..	Protective House
84...	.....	D. W. Russell.....	47	Permanent ....	Jan.,	1885..	Protective House
81...	.....	J. W. Halstead.....	52	Permanent ....	Jan.,	1872..	Protective House
8...	Clerk .....	J. F. McKissock.....	48	Driver, Wagon.	July,	1889..	Protective House

## Schedule of Property

Belonging to the City, in care of Protective Company No. 1.

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One wagon, traverse runner sleigh, extra pole, two extra wheels, 3 horses, 3 harnesses, 4 blankets, 2 Johnson pumps, 6 extinguishers, Siamese connections, 100 pounds soda, 40 pounds vitriol, 24 soda cans, 216 vitriol bottles, 16 brooms, 7 shovels, 4 squilgees, 3 iron pails, 5 large sponges, 2 axes, pick-ax, 2 bars, 2 hammers, 36 spikes, 2 augers, lathe, rake, 2 monkey wrenches, 12 lanterns, two 10-foot folding ladders, Spencer canvas chute and Dixon air gun, 2 dust pans, 60 gallon oil tank, 2 oil cans, 5 caps and 5 regulation badges, 8 insignia, 6 beds and bedding, 24 chairs, 3 mirrors, two clocks, table, 2 bureaus, carpet, water cooler, boiler, two 10-foot length 3 1-2 inch hose, 50 feet 3-4 inch rubber hose, 50 feet 5-8 inch rope, 104 rubber covers, 4 ash cans, 2 stable cans, 4 mops, 3 chamois skins, 3 stable pails, 2 carriage jacks, 2 stable brooms, 2 dusters, 2 pairs of steps, 2 sets of blocks, 5 spittoons, 2 cells Bradbury-Stone storage battery for headlights, three-horse pole, 2 jimmies, acid pump, 8 smoke protectors, canvas blanket, rubber gloves, 1 Vajen-Bader smoke protector, 5 service hats, and all tools for cleaning horses.

## FIRE-ALARM TELEGRAPH.

Location—Engine House, Palmer Street.

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HENRY C. FERNALD, Operator.

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Ten-circuit Automatic Repeater with Storage Battery of 400 cups.	
Miles of Wire.....	100
Signal Boxes.....	123
Engineers' Gongs.....	8
Engineers' House Gongs.....	15
Indicators .....	17
Bell Strikers.....	10
Gong and Indicator Combined in Police Station.	
Gong in Pumping Station.	
Gong in Merrimack Square.	
Gong at Towers' Corner.	
Gong at Northern Depot.	

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The strikers are located [as follows: Palmer Street Engine House, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Engine House, No. 6 Engine House, Highland School House, Lawrence Street Engine House.



## TELEPHONE CIRCUIT.

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Complete Stations.....	19
Tap Bells (extra).....	43
Miles of Wire.....	40
Storage Battery of 100 cups.	

## Schedule of Property

Belonging to the City, in care of Fire Alarm Operator.

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One eleven circuit switch-board for storage battery, one ten-circuit non-interfering automatic repeater, cut-out testing switch-board, line testing machine, 12 galvanometers, 115 public and 8 private signal boxes, 16 electrical arrangements for opening stall doors, 100 miles of wire, 500 cups of storage battery, 18 call and 45 tap bells, 21 extension bells, 40 miles of wire, 23 electric light current protectors, 75 glass insulators, 2 saws, 2 hammers, 2 screw drivers, 2 straps with vises, pliers, tongs, set bits and bit stock, broad ax, pair of climbers, deadman, ladder, draw shave, fire-alarm box keys, outside shells, doors to boxes, pocket relay, lanterns, desk, table, chairs, duster, chamois skin, 36 electric gas burners, 38 cups of battery for lighting gas burners, horse, harness, blanket, sleigh, 2 wagons, etc.

## Schedule of Property

Belonging to the City, in the Palmer Street Engine House.

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Two horses, harnesses, wagons, sleighs, etc., for the Chief's use, 1 two-horse hose carriage, 2,000 feet cotton hose, 2 two-way chucks, 2 lathes, grindstone, planer, 2 stable cans, tools, poles, shafts, ladders, feed, salt, boilers, and siphon.

In Chief's office—Two desks, set of drawers, table, 16 chairs, 1 silver and 2 brass trumpets, mirror, cloth, badges, 3 sets dies for department buttons, set of dies for department badge, large clock (Lawrence patent), small stop clock, chamois skins, dusters, soap, brooms, brushes, lanterns, medicines, sponges, matches, axle grease, etc.

There is also a horse, wagon and harness for the Assistant Chief's use, kept in Hose 7 House.

The value of the foregoing property is \$154,000.00.

## Location of Signal Boxes.

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- 4 Dutton Street, opposite Parker & Cheney's
- 5 Corner of Cushing and Fletcher Streets
- 6 Corner of Mt. Vernon Street and Broadway
- 7 Corner of Market and Dutton Streets
- 8 Corner of Westford and School Streets
- 9 Corner of Common and Salem Streets
- 12 Market Street, Police Station
- 13 Corner of Prescott and Merrimack Streets
- 14 Corner of Fayette and Andover Streets
- 15 Bleachery Street, on Bleachery Stable
- 16 Hosford Square
- 17 Corner of Middlesex and Walker Streets
- 18 Junction of Lincoln and Hale Streets
- 19 Corner of Gorham and Union Streets
- 21 Corner of Kirk and Merrimack Streets
- 23 Corner of Colburn Street and Lakeview Avenue
- 24 Corner of Middlesex and South Streets
- 25 Merrimack Street, opposite Tremont Street
- 26 Corner of Fletcher and Pawtucket Streets
- 27 Corner of Riverside Street and Mammoth Road
- 28 Corner of Hall and Aiken Streets
- 29 Corner of Tenth and Myrtle Streets
- 31 Corner of High and East Merrimack Streets
- 32 Corner of Bridge and Tenth Streets
- 33 Corner of Walker Street and Broadway
- 34 Corner of Lincoln and Tanner Streets
- 35 Corner of Charles and Lawrence Streets

- 36 City Farm
- 37 Corner of Whipple and Kinsman Streets
- 38 Fair Grounds
- 39 Corner of Fletcher Street and Broadway
- 41 Corner of Wyman and Nesmith Streets
- 42 Corner of Middlesex and Grand Streets
- 43 Edson School House, Highland Street
- 45 Engine House, Branch Street
- 46 Corner of First and Bridge Streets
- 47 Andover Street, near B. F. Butler's driveway
- 48 Corner of Dover and Grove Streets
- 49 Corner of Nesmith and Chestnut Streets
- 51 Junction of Thorndike and Gorham Streets
- 52 Corner of Moody and Austin Streets
- 53 Central Street, near Boston and Maine Depot
- 54 School Street, near Gas Works
- 55 Kitson Machine Shop (Private)
- 56 Middle Street, Engine House
- 57 Warren Street, opposite George Street
- 61 Lawrence Street, Engine House
- 62 Corner of Bowers and School Streets
- 63 Corner of Hale and Howard Streets
- 64 Corner of Third and Myrtle Streets
- 65 Lakeview Avenue, near Aiken Avenue
- 67 Hildreth Street, opposite Lilley Avenue
- 68 Corner of Sixth and Fremont Streets
- 71 Middlesex Village, corner of Baldwin Street
- 72 Middlesex Street, opposite Huntoon's Stable
- 73 Mammoth Road, near City Line
- 74 Varnum Avenue
- 75 Corner of Moody and Riverside Streets
- 76 Mt. Hope Street, corner of Sixth Avenue
- 81 Corner of Pine and Wilder Streets

- 82 Corner of Chelmsford and Grand Streets
- 83 Corner of Powell and Smith Streets
- 84 Corner of Westford and Gates Streets
- 85 Corner of Pine and Marlborough Streets
- 86 Corner of School and Liberty Streets
- 92 Bridge Street, opposite Eighteenth Street
- 93 Corner of Thirteenth and May Streets
- 113 Corner of Paige and John Streets
- 114 Corner of High and Porter Streets
- 115 Corner of Moore and South Whipple Streets
- 121 Western Avenue, near Railroad Crossing
- 125 Market Street, opposite Lewis Street
- 126 Corner of Mt. Washington and Varney Streets
- 127 Corner of Mammoth Road and Fourth Avenue
- 128 Counting Room, Tremont & Suffolk (Private)
- 129 Corner of Beacon and Methuen Streets
- 131 Corner of Howe and East Merrimack Streets
- 132 Pumping Station, Centralville
- 134 Corner of Main and Plain Streets
- 135 Perry Street, Electric Light Station
- 136 Corner of Stevens and Parker Streets
- 138 Corner of Lundberg and Gorham Streets
- 139 Corner of Cross and Adams Streets
- 141 Corner of Fairmount and Talbot Streets
- 143 Hood's Laboratory (Private)
- 145 Corner of Middlesex and School Streets
- 147 Wentworth Avenue, corner of Glenwood Street
- 149 Corner of Alder and Bartlett Streets
- 152 Corner of Merrimack and Spaulding Streets
- 154 Corner of Rock and Willie Streets
- 161 Faulkner's Mill (Private)
- 162 Corner of Wilder and Pawtucket Streets
- 163 Tanner Street, near Scannell & Wholey's



- 165 Corner of Lakeview Avenue and Fred Street
- 171 Corner of Middlesex and Pawtucket Streets
- 172 Corner of Appleton and Favor Streets
- 181 Corner of Stevens and Westford Streets
- 182 Corner of Chelmsford and Westford Streets
- 183 Corner of Shaw and South Loring Streets
- 184 Corner of Stevens and Marginal Streets
- 185 Corner of Pine and Westford Streets
- 192 Corner of Eighteenth and Beacon Streets
- 214 Corner of Nesmith and Rogers Streets
- 215 Meadowcroft Street, near Bolt Street
- 216 Lawrence Street, near Abbott Street
- 218 Chelmsford Street, opposite Powell Street
- 225 Corner of Little and Lewis Streets
- 232 Corner of Bridge and Fifth Streets
- 234 Consumers' Brewing Company (Private)
- 235 White's Tannery (Private)
- 236 B and Puffer Streets
- 238 Corner of Gorham and Carlisle Streets
- 241 Corner of Rogers and Fairmount Streets
- 247 Parkview Avenue, corner Hovey Street
- 249 Corner of East Merrimack and Stackpole Streets
- 261 Bunting Company (Private)
- 271 Lowell and Suburban Street Railway (Private)
- 281 Princeton Street, opposite Harvard Street
- 283 Corner of Chelmsford and Jenness Streets
- 285 Corner of Westford and Sayles Streets
- 325 Fenwick Street, near Suffolk Street
- 338 Corner of London and West Streets
- 371 Corner of Middlesex and Wood Streets

Police Signal, 10 quick blows repeated once in thirty seconds, calls every officer to the station.

Military Signal, 15 quick blows repeated once in thirty seconds, calls the militia to the armory.

## General Running Orders.

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The companies will respond to alarms of fire given from boxes as indicated on the running card.

The Chief, Assistant Chief and Protective Company will answer alarms from all boxes.

Members of companies who do not respond to first alarms will report to their respective houses and await orders. Should a second or third alarm be not received within thirty minutes, the officer in command will have the roll called and dismiss his men. If the recall is sounded before the stipulated time, the officer will dismiss his men. After a second alarm has been given, the members of companies not responding to it will remain on duty at their respective houses until the recall is sounded. If there are no companies remaining in quarters that respond to alarms given from other boxes after the first alarm has been given and before the recall is struck, one engine, one truck, chemical, and two hose companies, remaining in quarters nearest to the box giving the alarm, will respond immediately. This article applies to all alarms of fire, except in case of telephone or still alarms the engine will not respond. After a second alarm is given, all companies remaining in quarters will respond immediately before the recall is sounded.

In cases where two alarms are given from the different boxes, the second having struck before the recall from the first box, the recall from the first box will be two blows, from the second box one blow.

The all-out or recall signal will be given by striking two blows, with an interval of ten seconds between the blows.

Second alarms will be given by striking two blows, followed by one round of the box.

Third or general alarms will be given by striking three blows, followed immediately by one round of the box, when all the companies will respond.

Second or third alarms will be given by special orders of the Chief or Assistant Chief.

Two strokes repeated at 1-4 before 8 A. M. and 1-4 past 1 P. M. in the summer and 1-4 before 1 P. M. in the winter denotes no session of the Primary and Kindergarten Schools. The same alarm repeated in thirty seconds denotes no session of all the schools. The same alarm at 6.05 P. M. denotes no session of the Evening Schools.

## Companies Responding to Telephone Alarms.

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ENGINE COMPANY No. 1—Lawrence Street from City line to Concord River, to but not including Watson, Newhall, Crosby and Cedar Streets, to South Highland, Hale and Lincoln Streets, to Hale's Brook, to City line, to point of beginning.

ENGINE COMPANY No. 2—Hale's Brook from City line to but not including Lincoln, Hale, South Highland, Gorham and South Streets to Pawtucket Canal, to Fletcher and Broadway Streets, to Merrimack River, to City line, to point of beginning, also Hamilton Mills.

ENGINE COMPANY No. 3—Suffolk Street from Merrimack River to Fletcher Street, to B. & L. R. R., to but not including Summer and Charles Streets, to Concord River to Andover Street, to City line, to Bridge, Richardson, Hildreth, West Streets and Lakeview Avenue, to Merrimack River, to point of beginning.

ENGINE COMPANY No. 4—Belvidere except Lawrence Street.

ENGINE COMPANY No. 5—City line at Middlesex Village to Westford, Walker, Broadway and School Streets, to Merrimack River and Pawtucketville.

ENGINE COMPANY NO. 6—From Merrimack River to but not including Suffolk, Fletcher, Thorndike, Westford, Walker and Broadway (west of School), to Merrimack River, to point of beginning.

HOSE COMPANY NO. 7—From Pawtucket Canal opposite Hamilton Street to South and Appleton Streets, to B. & L. R. R., to Robinson, to Congress, Gorham, Keene, Cedar, Crosby, Newhall and Watson Streets, to Concord River, to City line (except Lawrence Street), to but not including Andover Street, to Concord River, to Pawtucket Canal, to point of beginning, also Appleton Mills.

HOSE COMPANY NO. 8—Dutton Street from Merrimack River, to but not including Fletcher, Broadway and School Streets, to Merrimack River, to Dracut and City line, to but not including Bridge, Richardson, Hildreth, West Streets and Lakeview Avenue, Merrimack River to point of beginning, also Pawtucketville.

HOSE COMPANY NO. 9—B. & L. R. R., at City line, to Westford Street, but not beyond Walker Street, on Westford, to City line, to point of beginning.

HOSE COMPANY NO. 10—East of Dutton Street from Merrimack River, to Pawtucket Canal, to Concord River, to Merrimack River and Centralville.

HOSE COMPANY NO. 11—Lawrence Street from City line, to Concord River, to but not including Charles and Summer Streets, to South and Gorham Streets, to but not including Congress and Robinson Streets, to B. & L. R. R., to City line, to point of beginning.



TRUCK No. 1—Lawrence Street, from City line to Concord River, to Rogers, Wamesit, Elm, Highland Streets, to B. & L. R. R., to Gorham, Carlisle Streets, to City line, to point of beginning, and Belvidere.

TRUCK No. 2—City line, to but not including Carlisle and Gorham Streets, to B. & L. R. R., to Willie and Fletcher Streets, to Merrimack River, to City line at Middlesex Village, to point of beginning.

TRUCK No. 3—Concord River, from Merrimack River to but not including Rogers, Wamesit, Elm and Highland Streets, to B. & L. R. R., to but not including Willie and Fletcher Streets, to Merrimack River, to point of beginning.

TRUCK No. 4—Centralville.

CHEMICAL C—West side of B. & L. R. R., at City line, to Willie and Fletcher Streets, to Merrimack River, to City line at Middlesex Village, to point of beginning, and Pawtucketville.

CHEMICAL B—East side of the B. & L. R. R., to but not including Willie and Fletcher Streets, to Merrimack River, Centralville and Belvidere.

THE PROTECTIVE COMPANY will respond to all alarms.



# ANNUAL REPORT

OF THE

## Superintendent of Street Lights

OF THE

CITY OF LOWELL

For the Year 1900.



LOWELL, MASS.

THE LIBBY PRINTING CO.  8 No. 243 CENTRAL STREET

1901.



# REPORT.

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LOWELL, January 1, 1901.

*To the Mayor and Board of Aldermen:*

GENTLEMEN:—Herein is submitted the Annual Report of the Superintendent of Street Lights, for the year ending December 31, 1900. The working force of the department under the direction of the Superintendent (Chief of the Fire Department), consists of thirteen men, one of whom acts as foreman. They have, in addition to their regular duties of lighting and cleaning the gas lamps, set up and fitted 14 gas and 12 gasoline posts, have removed 19 gas and 4 gasoline posts on account of the electric lights. They have replaced 4 gas and 27 gasoline posts that have been broken, removed 5 gas posts and plugged the mains, set 462 lights of glass and 21 globes.

There are at present 896 gas lamps; in addition there are 30 lights owned by the different corpor-

ations, the city paying for the gas consumed. These lights are lighted and put out according to the time designated by a card issued by the Superintendent monthly. These lights average about seven hours per night, and burn 4, 6, 12, and 18 feet per hour, according to location. There has been 31 new gas lights added and 19 discontinued during the past year.

A contract was made with the Welsbach Street Lighting Company of America for five (5) years, from the 15th of September, 1900, for \$23 per year, for each light, to run every night but four in each month. The lights are giving very general satisfaction, as they are a great improvement over old style of light, giving a much whiter, steadier and more agreeable light; the expense is a little more, but the great improvement over the old light, I think more than offsets that.

The locations of the gas lights added are: Oakland, Lundberg, Beacon and Bridge Streets, 2 each; Railroad, Ardell, Fletcher, Hawthorne, Puffer, Fayette, Edna, Fairmount, Andrews, Elliott and Dutton Streets, 1 each. The Boott Corporation selling some of their land threw five (5) of their lights on to the city to maintain. There are also five (5) lights on Houghton, Crescent and Emery Streets, burning gasoline with a mantle on exhibition, which will be turned into

gas lights as soon as the weather permits.

The contract with the Globe Gas Light Company will end April 1st, and a new contract will have to be made. The mantle has been adapted to oil lamps and I would recommend that the new contract be made for the mantle light, as the old light is very poor and unsatisfactory. Owing to the increased cost of gasoline the company has lost money on their contract and will not make another at the same price.

There are 557 gasoline lights at present, 13 new ones having been added and 11 replaced by gas and electric lights. The locations of the lights added are: Colonial Avenue 3, Victoria Street 2, Davis and Mariner Streets, Edgerly and Mill Courts, Varnum, Gardner, Cardell Avenues, First Street and Sawtelle Place one (1) each. The one in Sawtelle Place not in yet. In addition there are two on Emery Street and two on Houghton Street, which have been run by the Welsbach Mantle Company since December, on exhibition, at no expense to the city.

There are 492 Electric Lights, 12 new ones have been added the past year and located as follows: Hildreth and Aiken Avenue, Perry and Rogers, Middle and Shattuck, Liberty and South Walker, Bridge and Fifth, Bridge and Amory, Mammoth Road and Eighth Avenue, Wentworth Avenue



and Glenwood Street, Humphrey and Methuen Streets, and on Aiken Street Bridge there are 3. There are also 8 lights on Fort Hill Park that burn about four months in summer.

The following statement will show the Receipts and Expenditures for the year 1900.

### RECEIPTS.

Appropriation .....	\$88,000 00
Receipts.....	5 00
	<hr/>
	<u>\$88,005 00</u>

### EXPENDITURES.

Pay Roll.....	\$7,335 51
Lowell Electric Light Company :	
Streets.....	\$58,379 54
Public Buildings.....	747 73
Lowell Gas Light Company :	
Streets .....	\$6,273 20
Public Buildings.....	401 80
Globe Gas Light Company.....	8,785 60
Hay, grain, glass, paint, waste, frames, posts, lanterns, etc.....	600 48
Welsbach Gas Light Company.....	3,393 73
	<hr/>
Total expenditure for the year.....	\$85,917 59
Transferred to the general treasury fund	2,087 41
	<hr/>
	<u>\$88,005 00</u>



Schedule of property belonging to the City under the charge of the Superintendent of Street Lights, December 31, 1900: 1241 iron lamp posts, 573 wooden posts and frames used for gasoline purposes, 1 horse, 2 wagons, 2 sleighs, 1 robe, 1 blanket, 2 harnesses, 1 collar and hames, 892 lanterns, 9 jumbos, 12 ladders, 244 globes, 160 feet  $\frac{3}{4}$ -inch pipe, 40 feet 1-inch pipe, 1 air pump, saw, 6 oil cans, 60-gallon oil tank, stove with boiler connection, match box, Colcord desk, spittoon, coal hod, 5 shovels, 4 paint brushes, 3 gross burners, 1 bit-stock, 2 bits, 2 drills, 1 Stilson wrench, 900 burner pipe tips, 1 canopy top, tools for cleaning horse, 10 bushels of oats, 1 stall scraper, 2 brooms, 2 tool boxes, 1 table, 1 pail, 3 hammers, 1 wagon-jack, 1 screw-driver, 5 picks, 3 bars, 1 tamp, 2 monkey wrenches, 9 boxes of glass, 40 feet of hose,  $\frac{1}{8}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$ -inch dies, 3 pipe cutters and necessary pipe fittings, 3 pairs  $\frac{3}{4}$ -inch tongs, diamond glass-cutter, 1 lantern, spirit level, 12 torches, bench, vise, 2 chairs, axe, hatchet, 7 gallons of paint, looking-glass, draw-shave, etc.

Respectfully submitted,

EDWARD S. HOSMER,

Superintendent.



ANNUAL REPORT

OF THE

BOARD OF POLICE

FOR THE

YEAR ENDING JUNE, 1901.



LOWELL, MASS.:  
COURIER-CITIZEN PRINT.  
1901.



# ANNUAL REPORT.

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OFFICE OF THE BOARD OF POLICE,  
JUNE 1, 1901.

*Hon. C. A. R. Dimon, Mayor of the City of Lowell.*

DEAR SIR : —

The Board of Police has the honor to submit herewith the annual report of its administration of the Police Department of the City of Lowell for the year ending May 31st, 1901.

The conduct and discipline of the police force has on the whole been satisfactory, though neglect of duty and breaches of the rules and regulations governing the body have been noted and corrected. Six officers came before the Board to answer to complaints made by their Superior Officers, and were fined and reprimanded; and three others, charged with more flagrant offences, were dismissed from the service. The nature of the duties police officers are called upon to perform subjects them peculiarly to temptations; and the few among so large a force disciplined shows that the conduct and deportment at large has been excellent.

While there are cases calling for reprobation, there are also officers whose conduct has seemed to merit special official approbation. During the year this appreciation of duty well done has been expressed in general orders to the force from time to time, and the names of officers so rewarded are placed on the Official Roll of Honor accompanying this report.

The increased demands upon the services of the force in the performance of patrol duty, caused by the growth of the outlying districts of the city, has called imperatively for an increase in the regular, and incidentally in the reserve, police force. It should be understood that the reserve force, regular and probationary, is not a source of expense to the city, since its members are employed as substitutes for regular officers absent from duty by reason of sickness and other causes, or they are engaged in doing police duty of a semi-public character, when their services are paid for by those employing them. The law permitted the City of Lowell to have a reserve force of only ten men, and in order to increase that number to meet the new conditions it became necessary for the Mayor and City Council to accept the provisions of Chapter 316 of the Acts of 1896, entitled "An Act to provide for the appointment of a reserve force in cities." This condition having been presented to the Mayor and City Council, and its necessity and urgency explained, the essential legislation was provided, and an increase in the reserve force made.



The number of men appointed to the probationary reserve force during the year from the certified list of the Civil Service Examiners was nineteen; eight men promoted from the probationary to the permanent regular force; one regular patrolman resigned from the force; and one police pensioner died.

The regulation and control of the liquor traffic, and the administration of the laws governing the same, are the most difficult duties that fall to this Board. There is a wide divergence of opinion among our citizens relative to the liquor traffic, and many differences of opinion relative to the manner of administering the laws governing it. His Honor the Mayor, in a communication to this Board, laid down a policy which met the approval of them when he suggested, "A sensible and generous interpretation of the law should be given to the persons disposed to carry on this business lawfully and correctly, but a very strict espionage and quick punishment should follow any attempt to violate the laws governing this traffic." This marks out a judicious and judicial spirit, rather than a partisan one. The Board has conditions to meet, not theories to discuss; it must take cognizance of the rights and privileges of those engaged in the traffic, as well as the responsibilities they carry, and the pains and penalties they may be subjected to.

It has been the policy of the Board, as far as expedient and possible, to locate licensed places in the prominent, public streets, and to keep them out of the tenement

districts. The motives of the Board in following such a policy hardly need any explanation, nor does its wisdom require justification, inasmuch as this policy is an effort to mitigate in a measure some of the evils charged up against the traffic. That the decisions of the Board would meet universal approval was not to be expected; and many protests have come to them against this or that particular action. Hearings have been held against the granting and transfer of licenses, and arguments pro and con have been listened to. While all protestants against, and petitioners for, these privileges are, as far as possible, heard by the Board, and their arguments and opinions given due weight, they must expect at times to be disappointed, since private opinion and interest cannot override public expediency.

While it is held that a vote of the people permitting the issue of licenses to sell intoxicating liquors is not mandatory, this Board feels that in an American commonwealth, in a community of freemen, where majority rule obtains, its function is to give effect to the expressed wishes of the voters, and not to balk them. The Board believes it is its duty to grant and issue licenses when the people so vote; but it also seeks to conserve the rights of the minority by placing the liquor licenses where they are least likely to be harmful and demoralizing. The necessity for placing licensed liquor saloons in places of conspicuous publicity does not grow less from year to year; the law protects the abutter; the Board seeks to protect

the tenement house dweller, whose interests are greater and more important than those of the man who simply passes the saloon on the street. The Board feels that those citizens who cavil at its action in these matters of locations and transfers of liquor licenses should seek their remedy at the polls when the people make their annual decision on the liquor question.

The following figures show the number of liquor licenses granted during the past year, and amount paid into the city treasury for same:—

11	1st	class	licenses	as	Common Vict.	at	\$1,000	each	\$11,000	00
11	4th	"	"	"	Retailers	"	300	"	3,300	00
15	1st	"	"	"	Innholders	"	1,500	"	22,500	00
75	1st	"	"	"	Common Vict.	"	1,300	"	97,500	00
90	4th	"	"	"	Retailers	"	500	"	45,000	00
13	1st	"	"	"	Common Vict.	}	Revoked before payment made.			
13	4th	"	"	"	Retailers					
3	4th	"	"	"	Wholesalers	at	\$1,500	each	\$4,500	00
1	5th	"	"	"	Brewer	"	1,500	"	1,500	00
46	6th	"	"	"	Druggists	"	1	"	46	00
2	Special	"	"	"	Clubs	"	50	"	100	00

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280	licenses	of	all	classes	valued	at	.	.	.	\$185,446	00
Less	25	per	cent.	paid	State	Treasury	.	.	.	46,361	50

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Net	income	of	the	City	from	licenses	.	.	.	\$139,084	50
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There were eleven transfers of liquor licenses granted during the year, some of these being merely technical transfers, that is, an additional street number, or room, in

the premises, being granted. One first and fourth class license expired during the license year by reason of the death of the licensee.

In its last quarterly report the Board called the attention of the Mayor to the necessity for municipal legislation to cover the loan transactions contemplated by Chapter 577 of the Acts of 1898, entitled "An Act relative to small loans and the redemption of the security thereof." The Board at this time again urges the necessity for the formulation and legislation of an ordinance controlling this business, the evils incidental to which should be abated as soon as possible. The usurious and illegal practices of money-lenders, referred to in that communication, are without doubt still in operation and bear hardly on a poor and legally-ignorant class of our citizens, who should be protected. It is hoped that the matter will receive the early attention of the City Government.

The following minor licenses were issued during the year: 408 Common Victuallers; 525 Hawkers and Peddlers; 224 Job and Express Wagons; 24 Fish Wagons; 12 Night-Lunch Wagons; 25 Hackney Coaches; 116 Junk Collectors; 18 Junk Dealers; 10 Dealers in Second-Hand Goods; 10 Pawnbrokers; 35 Pool and Billiard Rooms; 24 Auctioneers; 6 Theatres; 21 Employment Offices; 64 Transient Amusement licenses; and 11 Sunday Concert permits. Licenses were issued to two private detectives; 46 special police warrants were issued to men appointed to do police duty without pay from the city.



Four licenses to sell pure alcohol were issued to dealers in paints and chemicals.

The revenue derived from minor licenses and sources other than liquor license fees amounted to \$9,924.12, making a total of \$149,008.62, subdivided as follows:—

Liquor license fees .....	\$139,084 50
Minor license fees.....	2,386 00
Fines and witness fees.....	7,156 09
Keeping prisoners.....	30 75
Sales of junk, manure and other sundries.....	146 23
Sale of cloth to officers .....	205 05
Total .....	<hr/> \$149,008 62

### ROLL OF HONOR.

The following named officers were bulletined in general orders, commending them for duty well done, the orders being read to the Police Force at all roll calls of the date of the order:—

John J. Mulry, Patrolman, G. O. No. 27, June 9, 1901.

Martin A. Maher, Patrolman, G. O. No. 28, February 5, 1901.

Charles A. Hamilton, Prob. Patrol., G. O. No. 29, May 25, 1901.

A statistical report of the work of the department and rosters of the force are appended.

Respectfully submitted,

FRANK B. DOW,

HARRY R. RICE,

PETER J. BRADY,

*Board of Police.*





STATISTICAL REPORT

OF THE

LOWELL POLICE DEPARTMENT

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1900=1901.

RECORD OF ARRESTS MADE IN LOWELL, MASS.,  
FROM JUNE 1, 1900, TO MAY 31, 1901.

OFFENCES AGAINST PUBLIC ORDER.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	Totals.
Adultery .....	3	13	3	4	2	..	..	2	..	6	..	..	33
Bastardy.....	..	1	2	1	1	1	1	..	..	1	4	..	12
Violations of Ordinances.....	4	4	5	..	3	2	..	..	..	..	6	6	30
Common Brawler.....	2	..	..	..	..	..	..	..	..	..	..	1	3
Common Night-walker.....	..	..	..	2	..	..	..	..	..	..	..	2	4
Cruelty to Animals.....	1	..	..	..	2	1	1	..	..	2	..	..	7
Disturbing the Peace.....	1	7	6	..	..	1	..	..	..	1	4	1	21
Keeping Unlicensed Dog.....	4	..	1	..	..	..	..	..	..	..	..	2	7
Drunkenness .....	353	329	395	352	278	259	269	216	235	239	256	312	3493
Escaped Prisoner .....	2	2	3	3	1	..	..	..	..	4	1	3	19
Forgery .....	..	..	..	..	..	..	1	..	1	..	..	..	2
Fornication.....	1	3	3	..	6	2	..	2	..	2	2	..	21
Idle and Disorderly.....	..	..	1	..	..	1	..	..	..	..	..	2	4
Indecent Exposure.....	..	1	3	5	..	..	..	..	..	1	..	..	10
Lewdness.....	..	..	1	..	..	..	..	..	..	..	..	3	4
Liquor Laws, Violations....	3	11	2	1	..	3	8	1	..	1	13	6	49
Neglect of Family.....	5	6	6	6	7	2	6	2	8	5	6	6	65
Peddling, Unlicensed.....	1	16	3	1	..	..	..	..	..	..	..	..	21
Polygamy.....	..	..	1	..	..	..	..	..	..	1	..	..	2
Profanity.....	..	..	..	1	1	..	..	..	..	..	..	..	2
Stubbornness.....	1	4	2	2	3	1	3	2	3	2	2	1	26
Vagabonds.....	..	..	..	1	..	..	1	..	..	..	..	..	2
Vagrants.....	..	1	1	4	2	1	..	2	1	..	4	1	17
Suspicious Persons.....	18	15	36	14	18	8	8	14	3	6	5	22	167
Insane.....	7	4	2	2	4	3	1	2	1	1	2	1	30
Truants.....	4	..	..	..	2	9	5	3	7	3	4	7	44
Violating Lord's Day....	7	2	..	4	..	9	6	22	7	..	..	..	57
Miscellaneous .....	10	5	6	6	8	3	2	1	7	5	3	5	61
Totals.....	427	424	482	409	338	306	312	269	273	280	312	381	4213

## RECORD OF ARRESTS — CONTINUED.

OFFENCES AGAINST THE PERSON.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	Totals.
Assault.....	12	34	18	20	12	15	14	4	12	10	9	10	170
Assault, Felonious.....	2	1	1	1	..	..	1	..	..	..	2	1	9
Rape.....	..	..	1	..	..	..	..	..	1	..	..	..	12
Threats.....	..	2	5	2	1	1	..	1	..	2	..	3	17
Miscellaneous .....	..	..	..	..	..	..	..	2	..	..	..	..	2
Totals.....	14	37	25	23	13	16	15	7	13	12	11	14	200
OFFENCES AGAINST PROPERTY.													
Breaking and Entering.....	2	1	3	1	4	6	2	8	3	4	3	2	39
Embezzlement.....	1	..	..	1	..	3	..	1	..	..	..	..	6
Fraud .....	..	..	2	..	1	..	..	..	..	..	..	..	3
Larceny.....	18	16	24	20	28	33	21	11	19	25	25	13	253
Malicious Mischief.....	1	4	..	1	1	1	..	..	..	..	1	..	9
Receiving Stolen Goods.....	..	..	..	..	3	..	..	..	1	..	..	..	4
Trespass .....	1	1	11	2	1	1	..	..	..	..	..	..	17
Unlawful Taking.....	..	1	..	..	..	..	..	1	..	..	1	1	4
Suspicion of Larceny.....	4	4	3	1	2	6	..	12	..	7	2	2	43
Miscellaneous .....	1	..	5	3	2	2	1	3	5	2	4	1	29
Totals.....	28	27	48	29	42	52	24	36	28	38	36	19	407

## DISTRIBUTION OF ARRESTS ACCORDING TO SEX AND NATIONALITY.

ITEMS.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	Totals.
Men.....	377	376	397	347	293	283	276	251	232	260	270	322	3684
Women .....	59	55	94	74	54	52	42	29	47	46	47	53	652
Minors.....	31	47	44	30	32	51	22	31	29	16	25	36	394
Non-Residents.....	125	101	140	101	115	86	76	70	58	84	76	115	1150
United States.....	196	211	218	198	167	189	145	141	146	147	154	192	2104
Ireland.....	116	107	136	101	97	74	84	57	77	78	79	105	1111
England.....	37	36	43	39	22	25	27	24	16	21	21	35	346
Scotland.....	17	11	11	19	12	7	10	..	5	4	7	7	110
British America.....	72	74	84	73	62	68	56	44	37	55	55	55	735
France.....	..	1	1	..	..	..	..	3	..	..	..	..	5
Germany.....	2	1	4	..	2	..	1	..	..	..	2	5	17
Italy.....	..	..	..	..	..	..	3	..	..	3	..	5	11
Russia and Greece .....	14	13	29	14	15	16	8	35	22	9	18	4	197
Turkish Empire.....	2	18	2	3	..	3	1	3	1	2	..	..	35
Scandinavia.....	3	2	4	2	2	4	5	4	3	2	6	3	40
Miscellaneous.....	8	4	3	2	..	..	..	..	1	1	..	..	19
Totals.....	467	478	535	451	379	386	340	311	308	322	342	411	4730

## DISTRIBUTION OF ARRESTS ACCORDING TO TRADES AND OCCUPATIONS.

ITEMS.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	Totals.
Trades, Building.....	45	41	35	34	33	32	29	24	20	24	33	34	384
Trades, Mechanical .....	37	49	51	45	33	38	33	25	29	34	33	34	441
Mill and Factory.....	144	152	193	145	125	115	108	107	101	104	106	131	1531
Shops and Stores.....	30	28	17	15	17	27	23	5	24	16	20	19	241
Professional.....	4	1	..	2	2	3	2	5	3	3	3	6	34
Agricultural.....	7	9	7	10	17	17	4	7	9	7	5	8	107
Clothing and Garb.....	11	18	19	6	16	9	7	13	10	9	3	11	132
Agents, Peddlers, etc.....	9	19	17	11	8	8	3	12	5	7	10	8	117
Laborers.....	126	112	128	113	75	83	85	62	56	83	79	99	1101
Service, Domestic, etc.....	31	31	43	44	25	25	20	20	25	16	21	28	329
Railroad and Transportation ..	11	15	14	13	17	14	14	8	11	9	14	14	154
Children .....	8	2	3	3	9	11	7	9	11	5	6	10	84
Miscellaneous.....	4	1	8	10	2	4	5	14	4	5	9	9	75
Totals.....	467	478	535	451	379	386	340	311	308	322	342	411	4730

## REPORTS OF VARIOUS SUBDIVISIONS OF POLICE DEPARTMENT.

## PATROL WAGON SERVICE.

ITEMS.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Number of Wagon Calls .....	343	333	370	324	260	254	241	217	243	223	237	206	3351
Number of Arrests by Wagon.....	403	377	452	387	311	296	272	268	258	255	264	339	4082

## BUREAU OF CRIMINAL INVESTIGATION.

ITEMS.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Property Lost and Stolen.....	\$826 00	\$590 00	\$538 00	\$446 00	\$442 00	\$632 00	\$388 00	\$625 00	\$211 00	\$689 00	\$544 00	\$317 00	\$6248 00
Property Recovered.....	616 00	381 00	313 00	220 00	160 00	283 00	305 00	522 00	105 00	268 00	204 00	116 00	3493 00
Property Unrecovered.....	210 00	203 00	225 00	226 00	282 00	249 00	83 00	103 00	103 00	421 00	340 00	201 00	2755 00
Search Warrants used .....	2	2	2	2	2	1	4	2	....	2	1	....	18
Cases Investigated.....	9	4	9	3	9	7	5	8	4	7	3	4	72
Number of Arrests made.....	7	11	17	8	20	14	12	14	9	16	7	10	145

## MATRON OF THE POLICE STATION.

CAUSES OF ARREST.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Adultery .....	1	1	1	2	1	..	..	1	..	..	..	..	7
Assault.....	2	3	3	..	..	..	..	..	1	3	1	..	13
Common Brawler.....	2	..	..	..	..	..	..	..	..	..	..	..	3
Common Night-walker.....	..	..	..	2	..	..	..	..	..	..	..	2	4
Child, Abandoning.....	..	..	2	..	..	..	..	..	..	..	..	..	2
Drunkenness .....	49	49	81	71	48	51	37	24	38	38	31	45	562
Fornication.....	..	2	2	..	3	..	1	1	1	..	1	..	11
Idle and Disorderly .....	..	..	1	..	..	..	..	..	..	..	..	2	3
Insane .....	3	..	..	..	..	1	1	1	..	1	..	..	8
Larceny.....	2	2	4	5	1	4	1	2	7	4	3	..	37
Liquor Laws, Violation .....	2	2	..	2	..	..	3	..	..	1	2	..	10
Peddling, Unlicensed.....	..	2	1	..	..	..	..	..	..	..	..	..	3
Ordinances, Violation.....	..	..	..	..	..	..	1	..	..	..	..	..	1
Receiving Stolen Goods .....	..	..	..	..	1	..	..	..	..	..	1	..	2
Concealing Mortgaged Property...	..	..	..	..	3	1	1	..	1	1	..	1	4
Stubbornness.....	1	2	2	..	..	1	1	..	2	2	2	..	15
Miscellaneous .....	1	..	1	1	1	1	..	2	1	3	1	3	15
Total Arrests. ....	61	63	98	83	58	58	45	31	50	53	43	57	700
Money Taken from and Restored to Prisoners.....	\$2 29	\$5 84	\$16 15	\$9 42	\$19 31	\$7 36	\$9 88	\$9 68	\$26 00	\$15 26	\$6 25	\$4 14	\$130 98

## INSPECTOR OF LICENSES.

ITEMS.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Number of Search Warrants.....	..	15	13	8	2	12	5	5	5	10	17	8	100
Number of Liquor Seizures.....	..	6	3	4	1	6	1	2	1	3	5	1	33
Spirits Seized—Gallons.....	..	..	1	1	..	..	1	1	..	1½	4	..	8½
Malt Liquors Seized—Gallons.....	..	48	4	28½	6	66	5½	5½	27½	11	27	16	245



## THE KEEPER OF THE LOCKUP.

POLICE STATION ITEMS.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Lodgers, Male.....	12	10	..	7	5	2	10	10	7	5	6	5	79
.. Female.....	3	2	..	1	2	2	..	1	1	1	1	1	15
.. Minor Males.....	2	1	..	1	..	1	5	..	..	..	3	..	13
.. Minor Females.....	..	1	..	..	..	..	..	..	..	..	1	..	2
.. Resident.....	..	..	..	..	..	..	..	..	1	2	1	..	6
.. Non-resident.....	15	12	..	8	5	4	0	11	7	4	6	6	88
.. American.....	7	9	..	5	3	3	10	8	4	4	7	4	64
.. Foreign.....	8	3	..	3	4	1	..	3	4	2	..	2	30
Lodgers, Total.....	15	12	..	8	7	4	10	11	8	6	7	6	94
Money Taken from Prisoners.....	\$762 54	\$498 03	\$669 54	\$483 58	\$469 41	\$497 26	\$397 41	\$567 14	\$482 39	\$391 78	\$366 52	\$653 62	\$6239 22
Persons Taken Home.....	8	19	14	10	6	3	6	7	6	7	10	9	105
Arrests.....	307	325	311	309	241	213	251	241	182	231	190	284	3119
Deaths and Contagious Diseases Reported.....	1	..	1	..	..	2	1	..	1	..	..	..	6
Unlicensed Liquor Places.....	89	64	69	57	105	124	87	85	67	76	92	97	1012
Doors Found Open.....	1	8	7	1	2	2	1	1	3	1	..	2	29
Fire Alarms Given.....	9	6	17	8	3	3	4	6	1	7	5	12	81
Lost Children.....	\$200 00	\$33 09	\$37 50	\$50 00	\$72 75	\$18 70	\$11 85	\$57 00	\$35 75	\$63 50	..	\$41 40	\$621 14
Property Stolen and Recovered.....	103	225	253	521	369	554	417	257	235	252	211	216	3623
Gas and Electric Lights Out.....	4	1	1	5	7	6	10	4	2	2	..	4	46
Teams Put Up.....	38	14	11	15	16	18	14	17	6	22	6	9	186
Disturbances Quelled.....	29	18	27	36	42	50	28	1	8	75	42	55	411
Defective Sidewalks.....	..	..	..	..	..	..	..	..	..	..	..	..	..

## REPORT OF THE POLICE SIGNAL SYSTEM.

ITEMS.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Duty Calls.....	34,740	35,927	34,527	34,270	37,617	37,186	38,840	39,511	33,597	38,533	38,245	38,735	441,778
Telephone Calls.....	3,121	3,534	2,940	2,815	2,966	3,114	3,084	3,161	2,598	3,024	3,089	3,162	36,598
Wagon Calls.....	349	354	362	333	362	251	241	216	225	226	240	246	3,355
Prisoners Taken.....	397	375	444	390	799	295	271	267	254	262	262	339	3,865
Miles Traveled.....	384	403	407	337½	288½	266½	263	241½	224	252	253	337	3,606½

## GENERAL ORGANIZATION OF THE POLICE.

## SUPERINTENDENT.

GEORGE R. DAVIS.

## DEPUTY SUPERINTENDENT.

WILLIAM B. MOFFATT.

## CAPTAIN.

WILLIAM R. KEW.

## LIEUTENANTS.

JAMES BROSNAN, JAMES E. WEBSTER, HUGH DOWNEY.

## SERGEANTS.

MARTIN CONNORS, JOHN B. CROWLEY.

## CRIMINAL INSPECTORS.

CHARLES LAFLAMME, THOMAS E. ALLEN,  
DAVID J. DONALDSON.

## INSPECTOR OF MINOR LICENSES.

FRANK GOODWIN.

## INSPECTOR OF CLAIMS.

MICHAEL E. McDONALD.

## WARRANT AND COURT OFFICERS.

WILLIAM G. BUMPS, CHARLES GREGG.

## TURNKEYS.

ALFRED M. HOLMAN, JAMES A. MCQUADE.

## DAY PATROL.—First Platoon.

Breault, Eloi N.,	Lane, Daniel W.,
Buchanan, John,	Leighton, John L.,
Cawley, Peter,	Lennon, Michael J.,
Crowley, John J.,	Libby, Albert E.,
Dennett, John S.,	Mackenzie, John R.,
Duncan, Alexander,	McKay, John H.,
Fox, Edward,	O'Connell, Michael,
Fox, Frank,	Ryan, Bartholomew,

Ganley, John J.,  
Grinnell, Enoch N.,  
Holland, James E.,  
Howard, Cornelius,

Sanborn, Thomas J.,  
Sparks, John F.,  
Tilton, John W.,  
Walsh, John A.

**NIGHT PATROL —First Platoon.**

Atkinson, Thomas R.,  
Boyle, James,  
Burnett, William C.,  
Clement, Horace W.,  
Cogger, Daniel W.,  
Conway, John E.,  
Coleman, Thomas F.,  
Corcoran, Peter T.,  
Curren, Peter,  
Dwyer, Timothy J.,  
Dwyer, Philip,  
Fitzgerald, Thomas H.,  
Flanagan, Edward F.,  
Frawley, Patrick J.,  
Freeman, John,  
Giroux, William,  
Grady, William H.,  
Healey, John F.,  
Hessian, Thomas H.,  
Hogan, David H.,

Hurley, James F.,  
Kiernan, Michael,  
Maguire, Hugh,  
Maher, Martin A.,  
Markham, James,  
Marshall, Frank K.,  
McCann, Matthew J.,  
McCloughry, Thomas,  
Maloney, Thomas A.,  
Neeley, Wesley D.,  
O'Brien, William H.,  
O'Connell, John,  
Page, Alonzo J.,  
Palmer, George B.,  
Reilly, James,  
Robinson, George W.,  
Somers, Henry E.,  
Swan, Edward T.,  
Tilton, Herman N.,  
Welch, Redmond, Jr.,

Welch, John N.

**NIGHT PATROL.—Second Platoon.**

Abbott, George S.,  
Blood, Josiah,  
Creahin, John,  
Dow, James E.,  
Fox, John W.,  
Hill, Charles S.,  
Hill, Edward E.,  
Ingalls, Lindsey E.,  
Kane, Bartholomew,

McNabb, James,  
Moore, Francis E.,  
Mulry, John J.,  
Murphy, Anthony,  
Murphy, Philip D.,  
Noye, Jose V. M.,  
Perkins, Everett E.,  
Provencher, Napoleon,  
Quinn, Henry F.,

Lamoureux, Joseph L.,  
Lynch, Jeremiah,  
Marshall, George W.,  
McCloughry, William,  
McIntee, Cormack,

Whelan, John T.,  
Whitney, Frank H.,  
Whittaker, John T.,  
Whitworth, James H.,  
Wilson, William H.

**RESERVE FORCE.**

Castles, Stephen J.,  
Charron, George A.,  
Clancy, Michael J.,  
Creamer, Ambrose M.,  
Deering, Henry E.,  
Donovan, John J.,  
Dooley, Jeremiah J.,  
Dwyer, James J.,  
Ealy, Frank B.,

Farley, Joseph,  
Farris, Henry,  
Hamilton, Charles A.,  
Hersey, Charles H.,  
Killoy, William H.,  
Nichols, Ezra A.,  
Riley, Thomas B.,  
Sullivan, John J.,  
Tansey, Owen.

**STENOGRAPHER.**

Emma V. Vining.

**ELECTRICIAN.**

Michael J. Burns.

**MESSENGER.**

John E. Maguire.

**NIGHT OPERATOR.**

James Howard.

**DRIVERS OF PATROL WAGON.**

Albert E. Crowell, Fred L. Davis, James W. Kilburn.

**PATROL GUARD.**

Chester E. Ryder, John Hickson.

**HOSTLER.**

Edward H. Gannon.

**POLICE MATRON.**

Margaret Wallace.

**CHARMAN.**

George W. Lewis.

ANNUAL REPORT  
OF THE  
TRUSTEES  
OF THE  
CITY LIBRARY  
OF LOWELL,  
FOR THE YEAR 1900.



LOWELL, MASS. :  
BUTTERFIELD PRINTING COMPANY,  
1901.





# Administration of the City Library, 1900.

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## BOARD OF TRUSTEES.

HON. JEREMIAH CROWLEY, Mayor of the City.

HON. GEORGE F. RICHARDSON,                      STEPHEN J. JOHNSON, M.D.

FRANK P. PUTNAM,                                      THOMAS WALSH,

PHILIP J. FARLEY.

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## LIBRARIAN.

FREDERICK A. CHASE.

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## ASSISTANT LIBRARIAN.

HARRIET F. HILL.

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## ASSISTANTS.

WALTER H. GILMAN,

HARRY C. BOWEN,

CLARA BEARD,

BERTHA G. KYLE,

MARION F. BROWN,

ALICE M. MYERS,

GEORGE F. O'DWYER,

CARL LEIGHTON,

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## SUPERINTENDENT OF READING ROOM.

STEPHEN T. WYMAN.



# REPORT OF THE TRUSTEES.

LOWELL, MASS., Dec. 31, 1900.

*To the City Council of the City of Lowell :*

The Trustees of the City Library of Lowell respectfully submit the following report for the year 1900 :

## FINANCIAL STATEMENT.

### RECEIPTS.

Balance from previous year.....	\$ 552.16
Appropriation by City Council .....	15,725.00
Interest on deposit.....	132.70
Fines .....	314.57
	<hr/>
	\$16,724.43

### EXPENDITURES.

Salaries . . . . .	\$ 8,937.10
Lighting . . . . .	1,501.82
Books . . . . .	1,984.28
Periodicals . . . . .	930.20
Binding . . . . .	476.50
Sundries. . . . .	1,869.46
Balance . . . . .	1,025.07
	<hr/>
	\$16,724.43

## Condition of the Library.

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Volumes purchased. ....	1,720
Volumes added by gift. ....	100
Volumes added by binding periodicals ....	340
Worn-out books replaced. ....	128
Duplicates purchased. ....	306
Total number of volumes added. ....	1,386
Total number of volumes in the library ....	61,036
Volumes lost and not paid for. ....	28
Estimated value of the same. ....	\$41.64
Periodicals and papers subscribed for. ....	193
Periodicals and papers given. ....	31
Number of volumes used, home and reference. ....	128,417
Number of volumes consulted in Reference Room. ....	15,808
Number of post cards sent to delinquents during the year	3,307
Applicants received during the year. ....	1,806
Applicants who did not call for cards. ....	85
Names registered during the year. ....	1,721
Number of names registered Dec. 31, 1899. ....	18,312
Total registered to date, Dec. 31, 1900. ....	20,033
Library open 306 days. ....	
Total circulation. ....	128,417
Average daily circulation. ....	420
Largest monthly circulation (March). ....	13,959
Smallest monthly circulation (August). ....	8,356
Largest daily circulation (Feb. 10). ....	1,089
Smallest daily circulation (June 27). ....	142
Percentage of fiction read. ....	68.2
Percentage of other classes. ....	31.8

# List of Donors to the Library, 1900.

NAMES	Volumes	Pamphlets
Adams, Mrs. Landon. ....	51	
American Union League Society. ....	1	
Ames, Gen'l Adelbert. ....	1	
Ayer, Fredk. F. ....	1	
Balch, E. S. ....	1	
Bartlett, Rev. W. A. . . . .	1	
Beer, W. ....	1	
Bigelow, Dr. W. S. ....	4	
Burnett, Jos. Co. ....	1	
Cincinnati Chamber of Commerce. ....	1	
Clark, Mrs. Susan W. ....	1	
Cust, R. N. ....	1	
Dryden, John F. ....	1	
Farmer, Jas. E. ....	1	
Foster, Mrs. C. E. ....	1	
Gettysburg National Park Commission. ....	1	
Goodwin, J. J. ....	1	
Green, Jas. ....	1	
Green, Sam'l A. ....	1	5
Harvard University. ....	1	
Hayley, Rev. John W. ....	1	
Hodges, Mrs. Faustina. ....	1	
Ipswich Historical Society. ....	1	
Lowell, City of. ....	2	
Marbury, Theo. ....	1	
Massachusetts, State of. ....	7	
<i>Carried forward. ....</i>	86	5

NAMES	Volumes	Pamphlets
<i>Brought forward</i> .....	86	5
Mercer, Alex. G. ....	1	
Murray, T. H. ....	1	
New York, State of ..	4	
Newell, Lyman C. ....	1	
Olin, Hon. Wm. M.....	17	1
Perce, Warren R. ....	1	
Pettingill & Co.....	1	
Providence, City of ...	1	
Rogers, Edward H.....	1	
Ronbroke Press.....	1	
Royal Society of Canada .....	1	
Sadler, R. ....	1	
Towle Mfg. Co.....		1
United States Government:		
Civil Service Commission.....	1	5
Department of Agriculture.....	14	68
"    " Interior.....	9	5
"    " Labor.....	1	1
"    " Navy.....	1	
"    " State.....	3	4
"    " Treasurer.....	4	3
"    " War.....	21	22
Fish Commission.....	1	
Library of Congress....	1	4
Paris Exposition Commission.....	2	
Smithsonian Institution .....	4	1
Supt. of Public Documents.....	248	106
Ward, Miss Julia E. ....	1	
Warner & Swasey.....	1	
Total.....	429	226

Baldwin Coolidge. Gift of photographs.

Jos. A. Coram. Gift of decorative lunettes.



ANNUAL REPORT  
OF THE  
CITY SOLICITOR

FOR YEAR ENDING  
FEBRUARY 28, 1901.



LOWELL, MASS.:  
THE LIBBY PRINTING COMPANY.

1901.





# REPORT.

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OFFICE OF CITY SOLICITOR,

Lowell, Mass., March 1, 1901.

*Gentlemen of the City Council :*

I respectfully submit the following as my annual report of the business of the law department for the year commencing March 1st, 1900, and ending February 28th, 1901.

Aside from the preparation and trial of cases, I am satisfied that the business of the law department namely, the writing of contracts, releases, and other papers, the giving of written opinions and advice to the various officers and departments of the city government, the examination of titles, and the preparation of resolutions, orders, ordinances, and other papers for the city council, has largely increased since 1895.

This increase is due in part to the fact

that in 1895 the solicitor's office in city hall was first occupied, thus bringing the office into more immediate contact with the members of the city government and the several departments; but I believe that the greater part of the increase is due to the increased population of the city, and the various changes in the method of transacting municipal business resulting from the changes in the city charter and other legislation. While I do not, at present, recommend any change in the office, I am satisfied that the time will soon come when the legal business of the municipality will imperatively demand the employment of more than one lawyer. The preparation and trial of cases before juries, and the argument of legal questions before the supreme judicial court, is so important and engrossing that it is unreasonable to expect an attorney to perform his duty in these respects satisfactorily, and at the same time attend to the many requests for legal opinions, and to the other detailed duties incumbent upon this office, with sufficient promptness to be reasonably satisfactory, either to himself or to the other officers of the city who seek his assistance and advice.

During the sessions of the legislature there are always many measures proposed which affect the city, and upon which it is but just that the

members of the city council should be kept informed, and at times it becomes of the highest importance that the city council, or some of the departments, should be heard. I believe that the duty of watching legislation in the interest of the municipality in Boston, Cambridge, and other cities near the capital, generally devolves upon the law department, and such oversight seems to come properly within the scope of the duties of the law officer of the city; but I have found it utterly impracticable to attend to matters of this nature in connection with the litigation and other important details of the business required of the city solicitor of Lowell.

For two or three years passed, in my annual reports, I have attempted to give a summary of the important legislation affecting the interests of the city of Lowell, enacted at the session of the legislature for the preceding year, but even this is of doubtful utility, as most of the enactments referred to have become operative and been brought to the attention of the city council, or of the heads of the city departments affected thereby, long before the printing of such report. I have, however, examined the statutes for the year 1900, affecting the city of Lowell, a brief reference to which will be found in

this report under the head of Legislation.

Since the amendment of our city charter in 1896, I have repeatedly called the attention of the city council to the very unsatisfactory condition of our city ordinances, many of which were entirely annulled and others greatly modified by the amendment referred to; so that the published ordinances afford very little assistance to any member of the city government in determining what his duties are or the manner in which the business of the city should be transacted. I am convinced that many of the mistakes made by committees of the city council, and other city officers, some of which have been the subjects of criticism and application to the court for injunctions, have been in consequence of misapprehension of the authority and duties of such committees and officers, and would not have occurred if the ordinances had been properly revised and corrected to conform to the new system inaugurated by the charter amendment. The necessity for such revision has been generally recognized but many have thought that the charter itself needed revision in many respects, and that it was better to defer any action in reference to the ordinances until a satisfactory charter should be obtained. Since the inauguration of the present city government, an order has been



passed creating a commission, consisting partly of members of the city government and partly of citizens not connected with the government, appointed by the mayor, to draft a revised city charter and present the same to the legislature. The city solicitor was made a member of this commission. The commission has given several public hearings and had numerous meetings, at which the subject of charter revision has been discussed, and a charter in part formulated; but owing to the limited time at the disposal of the commission, it is not probable that the legislature will take any action thereon at the present session. It is to be hoped, however, that the work of this commission, or some other action taken by the city council, will result in giving the city of Lowell, if not a new charter, at least a set of ordinances which shall be in harmony with the existing statutes.

The subject of the relations between "public service" corporations, as they are called, such as street railway, telephone, gas and electric light companies, and the municipality, is one which during the last few years has attracted much attention and given rise to a great deal of discussion and not a little friction, in some cases, between the officers of such corporations and city and town officers. There has been, I think, a grow

ing conviction that municipal governments in the granting of franchises should exercise great care to protect the interest of the citizen by imposing such conditions and restrictions as will prevent such corporations from becoming the masters and oppressors instead of the servants of the public, and should exercise whatever powers of supervision the statutes have given them to compel such companies to keep their implied contracts with the public, by furnishing at all times as good service at as low rates as is consistent with a fair and reasonable return for the capital actually invested.

During the past year several cities through their proper officers have petitioned the board of gas and electric light commissioners for a reduction in the price of gas, or an order requiring the gas companies in their respective cities to furnish a better quality of gas, or both. The action of the board on the petition of the mayor of Haverhill, in reducing the price of gas to consumers from \$1.10 to about 80 cents per thousand, doubtless encouraged other cities to present similar petitions. On the 23rd day of January, 1900, an order was passed by both branches of the city council requesting the Mayor to petition the Board of Gas and Electric Light Commissioners for a reduction of the price of gas in

Lowell, and requesting the mayor and city solicitor to use their best efforts to accomplish that object. In pursuance of said order, a petition was filed; but after some correspondence with experts familiar with the cost of manufacturing gas, and a conference between the mayor and the officers of the Lowell Gas Light Company, in consequence of information obtained in regard to the high prices of naphtha and other material necessary in the manufacture of gas then prevailing, and also the representations made to the mayor as to the purposes of the company, it was deemed best to defer for a time the hearing on the petition. No hearing has yet taken place but the petition is still pending and may be called up at any time when it is deemed best to do so. The Lowell Gas Light Company has a commendable record of conservative management; it has several times voluntarily reduced the price of gas to consumers, and has always kept its price as low as that of any gas company in the commonwealth. Its managers are and have always been among our best and most public-spirited citizens. These facts are deserving of consideration; but the fact remains that on an original investment of less than \$500,000. the company has accumulated property which the officers of the company in their report to the tax commis-

sioner have valued at \$1,200,000 besides paying semi-annual dividends every year, since the organization of the company, far in excess of the average rate of interest. In view of these facts and of the monopoly of the business of manufacturing and selling gas in Lowell enjoyed by the company, and of the comparative safety of its investment and immunity from losses, as shown by its more than fifty years of experience, it may be doubted whether the public has had in the past the full share of benefits from the company to which it was justly entitled. Perhaps the nature of the duty and obligation of public service corporations to the public was not so well defined, nor the extent of the risk involved in the investment of capital in the business so well understood in the earlier years of the company's existence as now. However this may be, I cannot see now any reason why the charge for gas should not be fixed in Lowell at a rate so low that the net profits of the company shall not exceed a fair rate of interest on the money invested, and it seems to me that such fair rate would not be much, if any, above the prevailing rate of interest on fairly secured loans. It seems to me, also, that the duty of municipal officers in respect to such companies would be much easier of performance if the

legislature should provide by statute that copies of the returns now required by law to be made by gas and electric light companies to the board of gas and electric light commissioners should be filed with the city clerk. Early in the present year the Lowell Gas Light Company petitioned the board of gas and electric light commissioners for authority to increase its capital stock for the purpose of obtaining funds with which to erect a new holder and making other improvements in its plant. The city council passed an order directing the mayor and city solicitor to appear and oppose such increase. The order was complied with, but the board authorized the increase in spite of the objections urged.

#### LEGISLATION.

During the year 1900, the following statutes especially affecting the city of Lowell, were enacted:

Chapter 238, entitled "An Act to Authorize the Proprietors of the Locks and Canals on Merrimack River to Discontinue the Upper Free Landing in the City of Lowell."

This act provides that "the Proprietors of



the Locks and Canals on Merrimack River shall not be required to maintain, hereafter, the so called upper free landing place above the "Swamp locks" in the City of Lowell, nor to maintain any free landing place above said "Swamp locks" on the Pawtucket canal instead thereof.

Section 3 of the act, provides that it shall take effect, if assented to by the mayor and city council of the city of Lowell, by concurrent vote of the city council approved by the mayor, "provided the city council with the approval of the mayor and the Proprietors of the Locks and Canals shall agree upon such terms as shall provide a free landing place above the "Swamp locks," otherwise this act shall be null and void." The apparent inconsistency between section 1 and section 3 of the act rendered it difficult to determine what the act really meant.

By an order of the city council, approved April 25, 1900, a committee was appointed to confer with the officials of the Proprietors of the Locks and Canals on Merrimack River, regarding the discontinuance of the upper free landing, as authorized by the act, and to arrange any necessary terms for such discontinuance. This committee reported an agreement for a free landing place on the east side of Pawtucket canal above the "Swamp locks," and thereupon an



order was passed, approved December 19, 1900, assenting to chapter 238, of the Acts of 1900.

Chapter 255, entitled "An Act to Provide that Women may serve as Overseers of the Poor in the City of Lowell," provides that "no person shall be disqualified by reason of sex from election to or from holding the office of overseer of the poor in Lowell."

Chapter 349, entitled "An Act to increase the representation of the City of Lowell in the Trustees of the Lowell Textile School Corporation" provides that the chairman of the board of aldermen, the president of the common council, and a member of the textile union of the city of Lowell, who shall be appointed by the Lowell Textile Council shall be members of the board of Trustees of the Lowell Textile School Corporation."

Chapter 76 of the resolves of 1900, appropriates the sum of sixteen thousand dollars for the purpose of the Lowell textile school, provided that an additional sum of six thousand dollars shall be paid to said trustees from other sources before the sum mentioned in the appropriation is paid; it also authorizes the city of Lowell to raise a sum not exceeding six thousand dollars for the purposes of said school.

Chapter 224 of the acts, provides for the

erection by the county commissioners of a stable at the Lowell jail, at a cost not exceeding five thousand dollars.

Chapter 72 of the resolves, appropriates a sum not exceeding thirty-five thousand dollars for erecting a building or buildings for the use of the Lowell textile school, provided that no part of this sum shall be paid until a lot of land suitable and ample for such building has been contributed and conveyed in fee to the trustees; and provided, that no part of such sum should be paid to the trustees in excess of the combined fair market value of the land so conveyed and of the machinery given absolutely to the trustees for the use of the school, together with the amount of contributions of money made to the trustees for the general purposes of the school or for the erection of said building or buildings; exclusive, however, of any contribution of money for the use of said school provided for in any other act or resolution of the year 1900.

It is a matter of congratulation and civic pride that the Lowell textile school, inaugurated in 1895, fostered by the liberal policy of the legislature and the city council, the enterprise of the Lowell board of trade, the generosity of manufacturers of Lowell and other citizens, and the munificence of certain individuals, especially

Mr. Frederick Ayer of New York, who has given a magnificent sum of money for the purchase of land and the erection of buildings for the use of the school, has passed its experimental stage and is now in prosperous operation, amply supplied with up-to-date machinery and competent instructors. Its influence for good and its value to our citizens can hardly be over estimated.

Among the general laws relating to cities and towns, which affect the city of Lowell, enacted in 1900, I note the following:

Chapter 166, entitled "An Act to Authorize Cities and towns to provide Free Evening Lectures" provides that the school committees of cities and towns may employ competent persons to deliver lectures on natural sciences, history and kindred subjects, in places said committees may provide.

Chapter 168, entitled "An Act relative to the rate of interest on Over-due Taxes" limits the rate which cities and towns may authorize to be charged for interest on over-due taxes to 6 per cent., the rate prior to the enactment of this statute in Lowell having been 7 per cent.

Chapter 189, entitled "An Act Relative to the Furnishing of Soldiers' Relief by Cities and Towns" amends chapter 356 of the acts of 1898, by providing that the relief authorized by the

last named act shall only be furnished "by, through or under the agency or direction of the officials charged with the disbursement of state or military aid."

Chapter 215, entitled "An Act to Provide for the Inspection of City and Town Alms Houses by the State Board of Charity" requires the said board to visit and inspect all alms houses maintained by the several cities and towns of the Commonwealth, and to report annually upon their condition and management.

Chapter 437, entitled "An Act Relative to the taking of Land by Cities and Towns for the Erection of Public Buildings" amends section 1 of chapter 379 of the acts of 1899, by increasing the amount of land which may be taken, for the purposes named in the act, to two acres instead of one.

Chapter 290, entitled "An Act Relative to the Service of Process in the Collection of Taxes," amends section 2 of chapter 425 of the acts of 1899, by providing that the affidavit, of a collector or deputy collector, kept on file in the office of a collector of taxes for a city or town that he has served the notices required by the last named act shall be prima facie evidence of such service.

Chapter 376, entitled "An Act Relative to



the Sale of Real Estate for the payment of Taxes," provides that the collector selling land for unpaid taxes shall sell only the smallest undivided part of the real estate taxed which will be sufficient to discharge the taxes and necessary intervening charges; or, if no one bids for such undivided part, that he may sell the whole of such estate, and that the collector may require of the purchaser a deposit to insure good faith in the payment of the purchase money. This statute makes an important change in the method of selling real estate for non-payment of taxes.

Chapter 246, entitled "An Act to authorize Cities and Towns to Pension Firemen" provides that any city may by vote of its city council, and under such restrictions and subject to such provisions as may be prescribed by such vote or by ordinance pension any member of the fire department of such city, who has reached the age of sixty-five years and who has performed faithful service in that department for a period of not less than twenty years; and any member of the fire department who has performed faithful service in that department for a period of not less than twenty years, provided he is incapacitated for further useful service. And that the act shall take effect in any city upon its accep-

tance by a majority of the voters voting thereon at the annual or special city election. And that the act shall be submitted to the voters at the next city election whenever a petition, signed by not less than two hundred registered voters of the city requesting the act to be done, shall be filed with the city clerk not less than thirty days before the election.

#### LITIGATION.

The most important litigation which has occupied the attention of this office during the past year has been the corporation tax cases, so called. they are:

4046. *Tremont and Suffolk Mills vs. City of Lowell.*

4047. *Same vs. Same.*

4048. *Same vs. Same.*

7314. *Same vs. Same.*

7315. *Same vs. Same.*



7313. *Hamilton Manufacturing Co. vs. City of Lowell.*

7316. *Appleton Company vs. Same.*

The above cases are petitions to the Superior Court, under chapter 127 of the Acts of 1890, in the nature of appeals from decisions of the board of assessors of the city, refusing to abate a portion of the tax assessed against each of the petitioners. The cases in which the Tremont and Suffolk Mills are petitioners seek an abatement of the tax for 1895, 1896, 1897, 1898 and 1899, respectively. The case in which the Hamilton Manufacturing Company is the petitioner, is for an abatement of the tax of 1899; and the case in which the Appleton Company is petitioner also seeks an abatement of the tax assessed against that corporation for the year 1899.

The trial of No. 4048 was commenced before Arthur Lord, a commissioner appointed by the Superior Court January 25, 1899, and was to be, to some extent at least, a test case. At the date of my last report the trial had been finished with the exception of the argument. The case was argued in March 1900 before the Commissioner, and his report was filed in January of the present year. I quote from the concluding

portion of the commissioner's report as follows: "It seems to me that it is clearly inconsistent with the spirit and purpose of the legislative provisions cited, that the corporation should have the benefit of the assessors' valuation in determining the amount of the tax to be paid to the state, and then be permitted to claim from the city an abatement of taxes on the ground that the valuation fixed by the assessors is excessive, after the tax commissioner at this instance has determined such valuation to be just and in fixing the amount of the excise tax to be paid to the state has deducted from the aggregate value of its shares the amount of the assessors' valuation of such real estate and machinery. For the reasons that the tax commissioner in determining the excise tax to be paid to the state has determined such assessed value to be just, and has deducted from his determination of the market value of the shares such assessed value of the real estate and machinery, and the corporation has paid its franchise tax to the state upon that basis, I find that the corporation is not entitled to claim under the provisions of chapter 11 of the Public Statutes an abatement of its tax on account of the alleged over valuation of the real estate and machin-

ery by the assessors and therefore find for the respondent."

In order to understand the meaning of the commissioner's report, a brief explanation of the manner in which corporations are taxed under the laws of this Commonwealth, is necessary.

Our manufacturing corporations pay two taxes; one to the state, called a franchise tax, and the other to the city. The amount of the state tax is found by multiplying the whole number of shares of stock by the market price of the stock on the first day of May of the year in which the tax is assessed, deducting from this product the amount of the local assessment of real estate and machinery and computing the tax on this remainder at the rate which is found by dividing the entire tax on property in all the cities and towns of the state by the aggregate valuation of such property. If, therefore, the product of the whole number of shares of stock of a manufacturing corporation by the market value per share is greater than the value of the real estate and machinery as fixed by the local assessors, the only result of a reduction in the amount of the local assessment is to increase the state assessment by exactly the same amount. If the state rate of taxation is higher than the local rate, the cor-

poration would lose by a reduction of the local assessment; but if the local rate is higher than the state rate it would gain the amount of the reduction multiplied by the difference between the state rate and the local rate.

To illustrate: In the year 1895, the local rate of taxation was \$18 per thousand, and the state rate was \$14.95 per thousand; the local rate, therefore, was \$3.05 per thousand higher than the state rate; and if for that year the assessors had valued the real estate and machinery of the Tremoot and Suffolk mills at \$500,000 less than the actual valuation, the corporation would have gained thereby the sum of \$1525. In the year 1896 the state rate of taxation was 10 cents per thousand higher than the local rate; in that year a reduction in the local valuation of \$500,000. would have resulted in a loss to the corporation of exactly \$50. In the year 1897, the local rate of taxation was \$2.14 per thousand higher than the state rate, and the corporation would have gained \$1070. in that year if the local assessment had been reduced by this same amount.

These figures would seem to indicate that this corporation can have very little interest in securing an abatement, at least in either of the three years mentioned; while in 1896 it would



be for their interest to prevent rather than seek an abatement by the local assessors; and this would be true, if after the abatement were allowed the state tax could be re-assessed; but as the state tax has already been assessed and paid and cannot be re-assessed, if the corporation can secure an abatement, having already been credited with the amount of the local assessment, they, in fact, escape altogether the tax on that amount of property and the city is obliged to pay back to the corporations, not only the amount which the corporation has been damaged by the over assessment, but also the amount which the state should have received if the valuation of the real estate and machinery as found by the court is the true valuation; thus, in 1895, if the corporation secures an abatement of \$500,000. the city will be required to pay back \$9,000. to the corporation, \$7,500 of which would have been paid by the corporation to the state if the assessors had assessed the property originally \$500,000. less than it was assessed.

The manifest injustice of permitting the corporation to recover from the city so large a sum of money which, if their contention is true, should have been paid to the state, evidently impressed the commissioner and he found as a matter of law, and without entering into the

question of whether or not the assessment was excessive, that the corporation could not maintain its petition.

The question of law raised by this report was presented to the Superior Court and the commissioner's ruling confirmed. Exceptions were taken, and the question is now pending in the Supreme Judicial Court. If this court should sustain the ruling of the commissioner and of the Superior Court, the decision will practically dispose of all of the above cases now pending; but if the exceptions are sustained, the case will be returned to the commissioner, who will then be required to report his finding on the evidence presented at the trial on the question of valuation. No action has been taken on any of the above cases, except No. 4048, and none will be taken until this case is disposed of.

*Edward A. Brigham vs. City of Lowell.*

This was an action of contract brought by plaintiff in the Superior Court for the county of Worcester to recover the sum of \$3,227.92 alleged to be due him for services as an expert in the suit of the Tremont and Suffolk Mills vs. City of Lowell. The writ was dated July 19, 1900, and was entered in court the first



Monday in September, 1900. Before the trial the plaintiff accepted my offer of \$1750. in full settlement of the claim, and judgment for that amount was entered in court, which judgment has been paid and satisfied.

No. 67.      *Charles E. Adams vs. City of Lowell.*

This is a petition to the Supreme Judicial Court for a writ of certiorari to revise the proceedings of the county commissioners in the matter of the application of the petitioner to said commissioners for an abatement of taxes assessed by the city of Lowell against the plaintiff in the year 1889. The county commissioners dismissed the petition. The tax sought to be abated in this case is the same which is the subject of the suit in No. 774, John H. Harrington, Col. of Taxes vs. Charles E. Adams, and will be disposed of upon the determination of that case.

No. 772. *John H. Harrington, Col. of Taxes*  
*vs. James W. C. Pickering.*

No. 773. *Same vs. Charles J. Glidden.*

No. 774.<sup>r</sup>                      *Same vs. Charles E. Adams.*

No. 775. *Same vs. Francis Jewett.*

No. 776. *Same vs. J. W. Bennett.*

No. 777. *Same vs. Levi Sprague.*

No. 778. *Same vs. Asa C. Russell.*

These several actions are brought by the collector of taxes to recover for the city taxes assessed against the defendants respectively for the year 1889. The defendants were directors of the Erie Telegraph and Telephone Company, which had purchased the properties of several other telephone companies, and it was believed that the stock in the companies whose properties were so purchased by the Erie company had been transferred to, and was held by the directors of the Erie company in trust for said Erie Company, each holding an equal number of such shares. As the Erie company was a foreign corporation organized under the laws of the state of New York, the assessors believed that such of the directors as resided in Lowell were liable, under the law, to be taxed for the value of such stock so held by them in trust.

The cases against Pickering, Glidden, Jew-

ett, Bennett, Sprague and Russell, were tried in the Superior Court in December 1898, and verdicts obtained for the plaintiff in each case. Exceptions to the rulings of the court were taken by the defendants' counsel to the Supreme Judicial Court, and since my last report the exceptions have been argued and are now awaiting the decision of that court, which will probably determine all of the cases.

916.           *Mary O'Connell vs. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by reason of defect, or want of repair or of sufficient railing upon First Street. The writ is dated September 13, 1895 and was returned to the Superior Court on the first Monday of November, 1895. No action having been taken in the matter since the pleadings were completed in said case, upon request of defendant the action was dismissed.

917.           *Abby A. Moore vs. City of Lowell.*

This was an action of tort for personal injuries alleged to have been received by reason

of a defect in the sidewalk on Bridge Street, nearly opposite the store of F. D. Munn & Son. The writ is dated September 13, 1895 and was returned to the Superior Court on the first Monday of November, 1896. As no effort was made by the plaintiff to have this case tried, upon my application it was dismissed.

118.        *Warren Aldrich, et al, vs. City of Lowell.*

This was a petition for a jury to assess damages for land taken by the city for the laying out of Revere Street. The writ was dated May 15, 1893. Petition dismissed.

182.        *Henry L. Tibbetts vs. City of Lowell.*

This was also a petition for a jury to assess damages for land taken in the laying out of Revere Street. The petition was filed May 15, 1893. Petition dismissed.

436.        *Patrick Lynch vs. City of Lowell.*

This was an action to recover back a sum paid by the plaintiff as an assessment for water-

ing streets on which plaintiff's property abutted. The plaintiff claimed that the act of 1891, authorizing such assessment was unconstitutional and void. The writ is dated October 6, 1894, and was returned to the Superior Court the first Monday of December 1894. During the last year, on application of the defendant's counsel, the action was dismissed.

270. *James Leonard vs. City of Lowell.*

This was an action for personal injuries alleged to have been received in consequence of a defect in Bridge Street at its junction with Eleventh Street. The writ is dated February 10, 1894 and was entered in the Superior Court on the first Monday of April, 1894. Dismissed.

1593. *Middlesex Co. vs. City of Lowell.*

This was a petition for the assessment of damages alleged to have been suffered by the petitioner in consequence of the location of the driven well plant near the Poor Farm. The petitioner claimed that the drawing of water into the driven wells and its consumption by the city diminishes the flow of water in River Meadow



Brook, which is tributary to the Concord River, and that thereby the petitioner's mill and water rights on the Concord River have been impaired. The petition was filed in court July 1, 1896, and on motion of respondent's counsel the petition was dismissed.

1596.      *John Doherty vs. City of Lowell.*

This was an action for personal injuries alleged to have been received by the plaintiff on December 11, 1894 by a fall on the sidewalk near No. 62 Sixth Street. The cause of the injury alleged was a rough, hubbly and uneven accumulation of snow and ice. The writ bears date of June 4, 1898 and was entered in Superior Court on the first Monday of July 1896. For want of prosecution, on motion of the defendant the action was dismissed.

208.      *Hugh McCormick vs. Albert Pinder.*

This is an action of tort brought against the superintendent of the Poor Farm and his assistant to recover damages alleged to have been sustained by the plaintiff, who was an inmate



of the work house at said farm, serving a sentence therein imposed by the Police Court of Lowell for drunkenness. The plaintiff was at work in the loft of the barn at said farm with other persons, and fell through a scuttle to the barn floor below, receiving severe injuries. The plaintiff alleges that said scuttle was negligently left open by the defendants. The writ is dated the seventeenth day of December 1896 and was returnable on the first Monday of January 1897. For want of prosecution, on motion of defendant's counsel the case was dismissed.

1208.      *Celeste A. Butcher et al vs. City of Lowell.*

This was a petition to the Superior Court for a jury to assess the damages alleged to have been sustained by the petitioners in consequence of the alteration of the grade crossing at Pawtucket Street, which damages were alleged to have resulted from a discontinuance of a portion of Pawtucket Street on which the land of the petitioners fronted, and the raising of said street at the bridge crossing said railroad track and in front of petitioners land. For want of prosecution, on motion of defendant's counsel this case was dismissed.

2884.

*James C. Donovan vs. City of Lowell.*

Entered in the Superior Court July, 1897. This was an action of tort to recover damages for personal injuries, and injuries to his horse, carriage and harness, suffered by the plaintiff March 31, 1897 by reason of a defect in Puffer Street. The alleged defect consisted of an excavation made in the street for the purpose of connecting a new house, then being erected, with the sewer. It was claimed that the excavation was not sufficiently guarded nor lighted, and that plaintiff's horse, a valuable animal, while being driven along the street fell into the pit and was so badly injured as to necessitate his being killed; and that plaintiff and Edmund Burke, his brother-in-law, who was in the carriage with him were thrown out and received the injuries complained of. The case was tried before Judge Lilley and a jury in 1897 and resulted in a verdict for the defendant. Exceptions were taken at the trial and duly allowed, but not having been entered in the Supreme Judicial Court during the year 1900, said exceptions were waived and judgement entered on the verdict.

2885.      *Edmund Burke vs. City of Lowell.*

Entered in the Superior Court, July, 1897. This was an action of tort for personal injuries resulting from the same accident mentioned in the next preceding case, and was tried with that case, the verdict being for the defendant. Since that verdict was rendered the pending exceptions have been dismissed.

5213.      *Margie Bent vs. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by the plaintiff December 11, 1898, while driving on Middlesex Street. The cause of action is an alleged defect in Middlesex Street near to the dividing line between the town of Chelmsford and the city of Lowell. The writ is dated February 15, 1899, and was entered in court the first Monday of April 1897. By agreement in this case the plaintiff was non-suited.

5214.      *Edwin G. Butterfield vs. City of Lowell.*

This is an action of tort for personal injur-

ies growing out of the same accident and alleged defect mentioned in the last preceding case. By agreement of counsel in this case, non-suit was entered.

80.

*Joseph Small vs. City of Lowell.*

This was a petition for a jury to assess damages for the taking of land in the laying out of Aiken Avenue. Filed October 13, 1891. Order of notice issued for December 1891. In this case, after a consultation with the committee on streets and city engineer, and an examination of the premises, a settlement was effected for the sum of \$660.

*John M. Pevey et al vs. City of Lowell.*

This was a petition to the county commissioners for a jury to assess damages for the taking of land for sewer purposes. This petition was brought in 1879 and was placed on file by the county commissioners in 1889. Restored to the docket of the county commissioners on application of plaintiff's counsel, in 1896. By vote of the city council this case was

referred to the committee on claims, who heard the parties, and reported in favor of paying the sum of \$7500. and by direction of the city council the case was settled by the payment of that sum.

1599.        *Robert H. Mulno vs. City of Lowell.*

This was a petition for a jury to assess damages alleged to have been caused to the land of the plaintiff by reason of the change of the grade crossing at Lawrence Street. The petition was filed in the Superior Court August 1, 1896. The case was settled by agreement for the sum of \$75.

1600.        *Benjamin Scholfield et al vs. City of Lowell.*

This was a petition for a jury to assess damages alleged to have been caused to the plaintiff by reason of the alteration of the grade crossing at Lawrence Street. The petition was filed in the Superior Court August 1, 1896. This case was also settled for the sum of \$75.

5959.        *George M. Kendall et al vs. City of Lowell.*

This was a petition to the Superior Court



for a jury to assess damages alleged to have been caused to the petitioner by reason of the taking of about 3425 square feet of land for the purpose of widening, straightening and defining the lines of the street known as Old Meadow Road. The petition was filed in the Superior Court October 30, 1899. Settled for \$125.

5411. *Elizabeth O'Brien vs. City of Lowell.*

This was a petition to the Superior Court for a jury to assess damages alleged to have been caused to the petitioner by reason of a change of the grade of the street in front of her premises on the northerly side of White Street. The petition was filed in court May 23, 1899 and an order of notice issued thereon, returnable the first Monday of July, 1899. Settled for \$500.

6437. *James Penagakis vs. Daniel W. Bugbee  
and Euric L. Leighton.*

This was an action of tort for an alleged assault and false imprisonment entered in the Superior Court on the first Monday of February



1900. Defendant Leighton is a police officer of Lowell, and the alleged assault and false imprisonment grows out of an arrest of the plaintiff by him at the suggestion and request of the other defendant. The officer in making the arrest appears to have acted in pursuance of instructions received by him from the chief of police. Whether there was technically any error on the part of the officer which would render him liable to damages, or not, he seems to have acted with the most perfect good faith. I appeared for the officer only, the other defendant being represented by other counsel. The case was tried at the September sitting of the Superior Court 1900. The jury found for the defendant Bugbee and were unable to agree upon damages against the defendant Leighton. The action will not again be tried.

6219.

*Michael Russell vs. City of Lowell.*

This was a petition to the Superior Court for a jury to assess damages alleged to have been caused to the petitioner by reason of the taking of land, and alleged injury to his remaining land, in the extension of Winter Street to South Street. The petition was filed December

10, 1899. Upon a trial before a jury at the March sitting of the Superior Court 1899, the plaintiff recovered a verdict for \$900., which upon motion of defendant's counsel, was reduced to \$600, which together with \$64.23 for costs, in all \$664.23 was paid by the city.

*Bernard J. Callahan vs. City of Lowell.*

This was an action of tort brought in the Police Court of Lowell for personal injury and damage to property of the plaintiff, alleged to have been sustained by the plaintiff while driving through Dutton Street on or about October 1, 1900. The cause of action was an alleged defect in the bridge under which the Western Canal runs, and near No. 503 on said street. Said defect consisted of a rotten and worn out condition of the planking of said bridge. The writ was dated December 1, 1900 and was returnable to the Police Court of Lowell the second Saturday of December 1901. This case was settled by the payment of \$25.

790. *Charles Cowley et al vs. Charles F. Coburn, City Treasurer et al.*

This was an application to the Superior Court for an injunction under Public Statutes chapter 27, section 129, as amended by statute of 1898, chapter 490, to restrain the city of Lowell and city treasurer from paying to H. H. Tilton of Boston, the sum of \$700. for an exhibition of fireworks in the city of Lowell, on July 4, 1900. The petition was filed in the Superior Court July, 1900. The claim of the petitioners was that the contract with Tilton was void and of no effect because under the amended charter of the city of Lowell, committees have no authority to make contracts or expend the money of the city. For the purpose of raising distinctly the legal questions involved in the action, the defendant filed a demurrer, which was argued before Judge Bell. The demurrer was over-ruled, and the petitioners' contention that the committee had no right to participate in the making of this contract was sustained. Afterwards the case was heard before the same judge, upon the petition and answer of the defendant. It appeared at the hearing that the mayor knew and assented to the making of the contract and was willing to ratify the same, and upon this ground

a final decree was entered in December 1900, dismissing the petition.

5357. *Charles J. Glidden et al vs. City of Lowell.*

This was a petition to the Superior Court for an abatement of a tax alleged to have been wrongfully assessed by the board of assessors of the city of Lowell against the defendants. The assessors obtained information that a note for \$25,000 signed by Charles J. Glidden as principal, Charles A. Grant, and George B. Perham, as sureties, was given to the Newton Savings Bank and that the sum of \$31,000. of Erie Telegraph and Telephone Company 5 per cent. gold bonds had been deposited as collateral to secure said note; thereupon it was assumed that the bonds in question were the property of said Glidden, Grant and Perham, two of whom resided in Lowell. The tax was assessed upon these two persons for the amount of the bonds so held by the bank as collateral. Upon the statement made by Mr. Glidden and the facts shown, it appeared that said note was given and collateral deposited in pursuance of the following vote of the Erie Telegraph and Telephone Company, namely: "That the Treasurer is hereby authorized to

borrow, with the approval of the President and Vice President, such sums of money as may be required from time to time for the proper conduct of the business, using as collateral the securities of the company, and the treasurer is hereby authorized and directed to sign whatever papers may be necessary to transfer any securities pledged." At the suggestion of counsel for the petitioners, the opinion of the Attorney General was obtained upon the question of the liability of the petitioners to pay the tax; and upon receiving his opinion that the petitioners were not taxable for said collateral or any part of it, the tax was abated and the action dismissed.

270

*Patrick O'Hearn vs. City of Lowell.*

This was an action of contract brought by the plaintiff in the Police Court of Lowell, to recover the sum of \$75. alleged to be due him for services in appraising the property of M. O'Flahavan taken for the Aiken Street extension. The writ was dated July 4, 1900, and was entered in court the first Saturday in July 1900. Upon consultation with the mayor, it appeared that the plaintiff was appointed by the mayor



by authority of the city council to appraise the property, and that the sum of \$75. was fair compensation for his services. I therefore, allowed judgement to be entered for \$75., which with \$10.14 for costs was paid.

6857.

*William Angluin vs. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by the plaintiff in the Willard Street sewer, on or about January 23, 1900, while in the employ of the city of Lowell. The cause of the accident was an explosion of dualin in the said sewer caused by the alleged negligence of the superintendent and foreman in charge of the construction of said Willard Street sewer. The writ was brought in the sum of \$15,000., dated April 21, 1900 and returnable on the first Monday of June, 1900. Trial was had at the September sitting of the Superior Court before Maynard J. The jury returned a verdict for the defendant. Plaintiff filed a motion to have the verdict set aside, which was argued before Maynard J. The court directed the following entry to be made. "Verdict set aside and new trial granted."



6991.           *James J. Fleming vs. City of Lowell.*

This is an action of tort for personal injuries growing out of the same accident and alleged negligence as the last preceding case and was tried with the Angluin case. The verdict of the jury in the Angluin case and the decision of the court setting aside said verdict and granting a new trial, are applicable to both cases.

145.           *Benjamin Russell vs. City of Lowell.*

This was an action of contract brought in the Police Court of Lowell to recover back a sum of money paid by the plaintiff to Charles A. Whittet, supt. of commons of the city of Lowell, for the use of a lot of land situated on the South Common during the whole of the 4th day of July 1899. Trial was had in the Police Court May 18, 1900. Judgment for defendant.

7889.           *John Keefe vs. City of Lowell.*

This is an action of tort for personal injur-

ies alleged to have been received by the plaintiff while in the employ of the city of Lowell in the Willard Street sewer, so called, on or about February 9, 1900, by an accidental explosion of dualin. The writ was dated May 31, 1900 and was returnable to the Superior Court on the first Monday of July 1900. The action is still pending.

This is an action of contract brought by the plaintiff in the Police Court of Lowell to recover the sum of \$910. alleged to be due him for work done for defendant city. The writ is dated December 29, 1900 and was entered in court the first Saturday of February 1901. It will be remembered that Thomas H. Muldoon was employed in 1899 by Andrew G. Barrett, then chief of the supply department, as an inspector in that department, at a compensation of \$3.00 per day; that the mayor refused to authorize the payment of his compensation on the ground that said Barrett had no right or authority to employ a person and fix his compensation without some action first being had by the city council. In May 1899 he brought his suit for the salary

then due, which was tried in June 1899 and judgment recovered against the city for \$223.11 and costs. The city appealed to the Superior Court, and at the trial in that court the judgment of the Police Court was reversed. The plaintiff alleged exceptions, which are now pending in the Supreme Judicial Court. The present case is brought to recover the salary for the remaining time during which said Muldoon was employed, and will, doubtless, be disposed of without a trial after the decision of the Supreme Court on the exceptions in the action first brought by the plaintiff.

7209.

*Napoleon Houle vs. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by the plaintiff by being struck on the head by a sky-light or window frame falling from the school house on Cabot Street. The writ is dated June 18, 1900 and was returnable to the Superior Court the first Monday of August 1901. The case is still pending.

870 *John H. Harrington et al vs. William J. Johnson et al.*

This was a petition to the Supreme Judicial Court, brought under Public Statutes, chapter 27, section 129, as amended by chapter 490 of the acts of 1898, against the members of the school committee, superintendent of schools and the city treasurer of Lowell, for an injunction to restrain the payment out of the city treasury of certain sums of money due to Nellie J. Cummings and others for services rendered in the training school of the City. It was contended by the plaintiffs that some of the pupils of said training school were non-residents of the Commonwealth, and that the city had no right to give such non-residents instruction in said school, under the laws and constitution of this Commonwealth. That payment to the pupil teachers, so called, was without warrant of law. The action was tried on the merits before Mr. Justice Loring of the Supreme Judicial Court. The evidence showed that the pupil teachers, so called, were really assistant teachers in the public schools, constantly employed and paid as such, and that the training school is not alone, or principally, a school for instruction, but that such school and the manner in which it is con-

ducted is largely a system by which teachers for the public schools in Lowell are selected only after careful, practical test of their fitness to perform the duties of teachers. At the close of the hearing the petition was dismissed.

470.     *Municipal Signal Company vs. City of Lowell.*

This case was originally brought for damages for an alleged infringement of a patent right in the United States Circuit Court. The bill was filed April 21, 1894. The defense of this suit has been in the hands of Fish, Richardson & Storrow, of Boston, who have conducted the same without expense to the city of Lowell. During the past year the case was dismissed.

In the following pending actions no changes have been made since my last report.

4324.     *Charles J. Wigren vs. F. O. J. Townsend.*

1280.     *Lowell Waste Company vs. City of Lowell.*

4973.     *Horace B. Coburn et al vs. City of Lowell.*

117. *D. Moody Prescott vs. City of Lowell.*
5623. *Thomas H. Muldoon vs. City of Lowell.*
3032. (*U. S. Circuit Court*) *Bragg Manufacturing Co.*  
*vs. City of Lowell.*
- 372 1-2. *D. Maria Parker vs. City of Lowell.*



During the year, written opinions have been given as follows:

January 8th. To Hon. Jeremiah Crowley, Mayor of Lowell.

Relating to the term of office of the city physician and his right to hold over after the expiration of said term until his successor is chosen.

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January 9th. To the City Council.

Relating to the office of city physician, and the authority for the election or appointment of such officer.

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January 27th. To George Bowers, City Engineer and Clerk of Committee on Streets.

Relating to the petition of Mary Broderick that the Mullen heirs be compensated for a certain strip of land on the easterly side of South Street, taken for the extension of Winter Street.

January 29th. To the Committee on Appropriations.

Relating to the application of the eight hour law to laborers, workmen and mechanics.

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January 29th. To Hon. Jeremiah Crowley, Mayor.

Relating to the terms of office of members of the board of health.

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February 7th. To Martin J. Courtney, Secretary,  
Board of Overseers of the Poor.

Relating to the legal right of the board of overseers of the poor to appoint the drivers of the ambulances.

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February 7th. To the Committee on Appropriations.

Relating to the powers of the school board to expend money regardless of appropriations made for school purposes by the city council.

February 10th. To the Committee on Appropriations.

Relating to the same subject matter.

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February 14th. To Horace H. Knapp, Agent of the Board of Health.

Relating to plumbers' licenses as defined by acts of 1894.

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March 10th. To John W. W. Tilton, Supt. of Commons.

Relating to the authority of the superintendent to authorize the payment of wages to a laborer during the time he is not at work for the city, by reason of disabilities occasioned by an accident while in the line of his duty and in the city's employ.

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April 4th. To the Board of Aldermen of the City of Lowell.

Relating to the petition of Edward R. Donovan, et al, for leave to erect and maintain a

cemetery within the city limits to be known as St. Peter's Cemetery.

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May 22nd. To the Board of Aldermen of the  
City of Lowell.

Relating to the rights of the city and the rights of the N. Y. N. H. & Hartford R. R. Co. in London Street.

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June 14th. To the Board of Police.

Relating to the meaning of the words "public streets" as used in section 12 of chapter 100 of the Public Statutes.

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June 15th. To the City Council of the City  
of Lowell.

Relating to a communication from Koehler & Reiss to His Honor the Mayor, asking a grant to said firm of certain privileges in the streets of Lowell.

June 20th. To the Committee on Accounts.

Relating to the payment of certain bills for street books furnished by John H. Harrington, Prop. of the "Lowell Sun" for the Assessors' Department.

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June 26th. To Joseph S. Gillow, Superintendent of Public Buildings.

Relating to the legality of granting to the school janitors one week's vacation without loss of pay.

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July 17th. To the Committee on Accounts.

Relating to the liability of the city to pay for the use of telephones placed in certain departments, contrary to the orders of the city council.

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August 30. To George Bowers, City Engineer.

Relating to the liabilities and obligations of the city of Lowell, county of Middlesex, Pro-

prietors of Locks and Canals, and the Lowell and Suburban Street Railway Co., in respect to the rebuilding of Pawtucket Bridge.

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August 30th. To the Common Council of the City of Lowell.

Relating to the interpretation of chapter 238 of the acts of 1900, bearing upon the New Free Landing.

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September 4th. To A. K. Whitcomb, Superintendent of Schools.

Relating to the employment of physicians to examine school children with a view to the discovery of contagious diseases and the prevention of epidemics through the schools.

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September 25th. To Hon. Jeremiah Crowley, Mayor of Lowell.

Relating to the question as to who is head



of the cemetery department of the city of Lowell, under statute of 1896, chapter 415.

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October 4th. To Hon. Jeremiah Crowley, Mayor  
of Lowell.

Relating to the authority of the city council to order the transfer of a certain appropriation for edge stones, in the street department, to an appropriation for sidewalks.

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October 18th. To Abel Wheeler, Chairman of  
the Board of Assessors.

Relating to the exemption from taxation of certain real estate.

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October 30th. To the City Council of the City  
of Lowell.

Containing information relative to the notices of suits against the city, filed by four of the manufacturing corporations.

November 14th. To the Board of Assessors.

Relative to the exemption from taxation of two wooden houses occupied by the Young Men's Catholic Institute on Stackpole Street.

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December 21st. To Alderman James H. Carmichael,  
and others.

Relating to the rights of the city in the passage way running parallel to, and between Middle and Merrimack Streets, also the right of the city to appropriate money to pave the same.

Respectfully submitted,

FRANCIS W. QUA,

City Solicitor.

# LIST OF JURORS

FOR THE

## CITY OF LOWELL,

FOR THE YEAR 1901.



LOWELL, MASS.  
COURIER-CITIZEN COMPANY, PRINTERS.  
1901.



# CITY OF LOWELL.

## LIST OF JURORS.

1901.

### A

ABBOTT, HENRY F.....	278 Branch st.....	dealer
ABBOTT, JOHN W.....	12 Fremont st.....	tinsmith
ABELS, ALEXANDER M.....	43 Nicollet st.....	merchant
ABELS, SAMSON.....	43 Nicollet st.....	merchan
ABELL, ORREN W.....	263 Westford st.....	compositor
ADAMS, CHARLES E.....	218 Wilder st.....	hardware
ADAMS, EDWARD E.....	84 Middlesex st.....	music teacher
ADAMS, ENOS H.....	332 E. Merrimack st.....	shoe dealer
ADAMS, THEODORE.....	203 Westford st.....	janitor
AHLBERG, CARL A.....	8 Jennings place.....	machinist
ALLEN, THOMAS O.....	947 Middlesex st.....	inspector of milk
AMES, ADELBERT.....	333 Andover st.....	gentleman
ANDERSON, JAMES.....	27 Alder st.....	gentleman
ARNOLD, WILLIAM A.....	75 Fremont st.....	clerk
ASHWORTH, GEORGE L.....	33 Rock st.....	file cutter
ATWOOD, EARL K.....	24 Varnum av.....	beltmaker
ATWOOD, WILLIAM P.....	11 Harding st.....	chemist
AYER, CHARLES F.....	249 Pawtucket st.....	banker
AYER, WILLIAM A.....	27 Varnum av.....	beltmaker

## B

BABCOCK, HENRY E.....	75	Bowers st.....	salesman
BAGLEY, CHARLES N.....	247	Gorham st.....	overseer
BAILEY, FREDERICK.....	142	First st.....	druggist
BAILEY, HARRY L.....	76	Fremont st.....	clerk
BAKER, E. GARFIELD.....	5	Fletcher st.....	builder
BAKER, FREDERICK W.....	136	Myrtle st.....	machinist
BAKER, J. AVISON.....	103	So. Loring st.....	music teacher
BALCOM, LON M.....	175	Warwick st.....	laborer
BALDWIN, EDWIN K.....	92	Holyrood av.....	bookkeeper
BALDWIN, FREDERICK G.....	32	May st.....	bookkeeper
BALDWIN, JOHN D. S.....	534	Merrimack st.....	moulder
BALDWIN, WILLIAM H.....	1045	Gorham st.....	teamster
BARCLAY, OSCAR R.....	162	Smith st.....	carpenter
BARKER, JOSEPH S.....	538	Chelmsford st.....	machinist
BARNES, CHARLES O.....	36	London st.....	printer
BARNES, HENRY W.....	20	Huntington st.....	tailor
BARNEY, FRED M.....	74	Westford st.....	grocer
BARON, CHARLES C.....	88	Eleventh st.....	clerk
BARR, WILLIAM A.....	48	Varney st.....	clerk
BARRY, JAMES W.....	177	Middlesex st.....	machinist
BARRY, PATRICK H.....	3	Lagrange st.....	driver
BARSTOW, WALTER T.....	32	So. Loring st.....	clerk
BARTLETT, HENRY.....	141	Nesmith st.....	superintendent
BARTLETT, ROBERT G.....	78	Stevens st.....	real estate
BARTLETT, WILLIAM T. S.....	167	Varnum av.....	hardware
BARTLETT, WALTER E.....	523	Fletcher st.....	clerk
BARTON, ARTHUR E.....	118	Butterfield st.....	clerk
BARTON, CYRUS.....	78	So. Walker st.....	contractor
BASSETT, CYRUS R.....	90	Andrews st.....	operative
BATEMAN, JOHN F.....	5	Stevens st.....	surveyor
BEALS, GEORGE M.....	62	West Sixth st.....	harness maker



# LIST OF JURORS.

## B

BEALS, HORACE P.....	84 Marlborough st.....	lumber dealer
BELL, CHARLES W.....	235 High st.....	clerk
BELL, FRANK A.....	56 Methuen st.....	machinist
BENNETT, JOHN C.....	45 Walker st.....	merchant
BERNARD, ERNEST A.....	509 Merrimack st.....	barber
BERTRAND, ARTHUR M.....	18 C st.....	tailor
BIBEAULT, ALPHONSE.....	513 Wilder st.....	contractor
BICKFORD, EDWIN S.....	240 Market st.....	mill supt.
BIGGS, JOHN.....	24 Canton st.....	carpenter
BILL, FREEMAN M.....	30 West Sixth st.....	grocer
BIRTWELL, JAMES G.....	60 Whipple st.....	butcher
BISHOP, HERBERT L.....	28 May st.....	clerk
BISSELL, WILLIAM E. K.....	117 Third st.....	salesman
BIXBY, ALBERT J.....	80 D st.....	overseer
BIXBY, NEWTON.....	63 Bridge st.....	operative
BLANCHARD, CHARLES F.....	49 Arlington st.....	druggist
BLAZON, DONAT.....	9 Bowers st.....	pressman
BLESSINGTON, JOHN B.....	53 Second av.....	foreman street dept.
BLODGETT, EMERY F.....	37 Midland st.....	bookkeeper
BLOOD, JOHN C.....	13 Durant st.....	railroad
BOARDMAN, GEORGE H.....	365 East Merrimack st.....	clerk
BOARDMAN, HARRY K.....	93 Fort Hill av.....	salesman
BOISVERT, CHARLES H.....	94 Lilley av.....	baker
BOLTON, THOMAS M.....	100 Mt. Washington st.....	harness maker
BONENFANT, ALDERIC J.....	461 Moody st.....	clerk
BOOTT, HENRY.....	42 Seventh st.....	cigar dealer
BOOTH, ROBERT.....	353 Walker st.....	overseer
BOUCHER, THOMAS E.....	61 Hampshire st.....	clerk
BOULAIS, ARTHUR N.....	484 Moody st.....	clerk
BOUTWELL, ROSWELL M.....	33 Wannalancit st.....	merchant
BOWEN, ALLYN G.....	20 Webster av.....	clerk
BOWEN, GEORGE F.....	456 Chelmsford st.....	yard master

**B**

BOWERS, DUNCAN V.....	451	Lawrence st.....	grocer
BOWERS, FRANK.....	45	Marion st.....	painter
BOYLE, EDWARD D.....	41	State st.....	printer
BOYLE, JAMES H.....	110	Congress st.....	laborer
BOYLE, JOHN F.....	32	Whipple st.....	clerk
BOYLE, JOHN L.....	54	Lane st.....	machinist
BOYLE, THOMAS H.....	1014	Lakeview av.....	liquor dealer
BOYERS, JOHN.....	12	Albion st.....	loom fixer
BOYNTON, D. RAYMOND.....	180	Pawtucket st.....	grocer
BRACKETT, ALBERT W.....	71	Middlesex st.....	overseer
BRADBURY, ROLF.....	142	Princeton st.....	merchant
BRADLEY, EDWARD.....	45	Kidder st.....	laborer
BRADT, GERRITT J.....	523	Fletcher st.....	baker
BRAZER, RALPH F.....	45	Fairmount st.....	merchant
BREEN, JOHN P. ....	9	Lyon st.....	operative
BREEN, PHILIP J.....	9	Lyon st.....	grocer
BRENNAN, JOHN J.....	196	Concord st.....	butcher
BRIDGES, EDWARD.....	2	Dunfey st.....	contractor
BROCK, GREENLIEF C.....	118	First st.....	druggist
BROOKS, HENRY O.....	17	Nicollet st.....	civil engineer
BROTHERS, GEORGE W.....	60	Royal st.....	clerk
BROWN, ALDEN P.....	13	Robert st.....	machinist
BROWN, BENJAMIN G.....	182	Westford st.....	contractor
BROWN, CHARLES W.....	185	Andover st.....	druggist
BROWN, FRANK K.....	321	High st.....	wool buyer
BROWN, FRANK.....	3	Porter st.....	manufacturer
BROWN, JOHN A.....	18	Bourne st.....	janitor
BROWN, MALCOLM D.....	69	Plain st.....	manufacturer
BROWN, NELSON.....	275	Gibson st.....	gentleman
BROWN, OSCAR W.....	50	Queen st.....	janitor
BROWN, PHILIP P.....	59	Second av.....	coal dealer

## B

BROWN, WILLIAM D.....	9 Simpson st.....	real estate
BROWN, WILLIAM H.....	290 Westford st.....	grocer
BROWN, WILLIAM H.....	67 Bartlett st.....	teamster
BRUCE, KENNETH R.....	2-41 Bowers st.....	clerk
BRUIN, MICHAEL J.....	267 Worthen st.....	clerk
BRUNELLE, PIERRE JR.....	825 Merrimack st.....	jeweller
BRYAN, THOMAS.....	22 Pond st.....	leather worker
BRYANT, FRED A.....	284 Pine st.....	musician
BUCKLEY, GEORGE.....	190 High st.....	motorman
BUCKLEY, JOHN.....	305 Summer st.....	bookkeeper
BURBANK, SAMUEL.....	72 Fort Hill av.....	clerk
BURBECK, FREDERICK A.....	20 Middlesex st.....	clerk
BURBECK, WILLIAM J.....	20 Middlesex st.....	milk dealer
BURKE, EDWARD N.....	216 Nesmith st.....	superintendent
BURKE, MICHAEL J.....	105 Fulton st.....	fireman
BURNHAM, CRAWFORD.....	553 Fletcher st.....	lumber dealer
BURNS, EDWARD.....	154 Concord st.....	wool sorter
BURNS, FRANCIS A.....	39 Chestnut st.....	book binder
BURNS, JAMES E.....	19 Andover st.....	operative
BURNS, JOHN J.....	99 Cushing st.....	clerk
BURNS, JOSEPH F.....	68 Smith st.....	clerk
BURNS, MALACHI.....	84 Pleasant st.....	clerk
BURNS, WILLIAM M.....	50 Barclay st.....	laborer
BURRAGE, HAMILTON.....	856 Gorham st.....	paymaster
BURRAGE, HERBERT D.....	139 Stevens st.....	clerk
BURRILL, JOHN F.....	612 Beacon st.....	clerk
BURTT, ARTHUR M.....	145 Beacon st.....	architect
BURTT, PAUL R.....	37 Fort Hill av.....	florist
BUTCHER, ROBERT J.....	365 Wilder st.....	superintendent
BUTLER, FRANK E.....	114 School st.....	pattern maker
BUTLER, FREEMAN H.....	665 Varum av.....	druggist

## B

BUTLER, WILLIAM.....	176 Broadway .....	laborer
BUTTERFIELD, ARTHUR D.....	84 Forrest st.....	printer
BUTTRICK, FRED A.....	4 Hanks st.....	treasurer
BUTTERWORTH, SAMUEL D.....	153 Moore st.....	clerk
BYAM, SUMNER A.....	185 Foster st.....	clerk

## C

CADDELL, PETER.....	545 Middlesex st.....	carpenter
CADY, GEORGE L.....	163 Summer st.....	manufacturer
CALDERWOOD, WILLIAM.....	434 High st.....	cigars and tobacco
CAMPBELL, GEORGE.....	61 Agawam st.....	grocer
CAMPBELL, JAMES L.....	83 Queen st.....	salesman
CARNEY, GEORGE J.....	39 Plymouth st.....	banker
CARNEY, OWEN J.....	20 Market st.....	blacksmith
CARPENTER, HENRY.....	18 Dempsey pl.....	operative
CARPENTER, W. IRVING.....	28 So. Whipple st.....	dealer
CARRIGG, JOHN J.....	18 Second st.....	clerk
CARROLL, EDWARD J.....	106 Mt. Vernon st.....	plumber
CARSON, GEORGE.....	Middlesex yard.....	watchman
CARTER, ALBERT D.....	105 Moore st.....	manufacturer
CARTER, JOHN T.....	97 Hastings st.....	cabinet maker
CARTER, JOHN W.....	63 Jenness st.....	cabinet maker
CASEY, GEORGE W.....	45 Willow st.....	tanner
CASSIDY, JAMES W.....	4 Fifth av.....	gentleman
CAVANAUGH, SIMON A.....	98 Andover st.....	salesman
CHADWICK, ALFRED M.....	87 Fort Hill av.....	paymaster
CHADWICK, AUSTIN K.....	444 Andover st.....	treasurer
CHADWICK, CHARLES A.....	23 Lombard st.....	salesman



## C

CHALIFOUX, EDWARD E.....	305 Summer st.....	salesman
CHALIFOUX, JOSEPH L.....	377 Wilder st.....	merchant
CHAMPAGNE, JOSEPH O.....	472 Moody st.....	insurance agent
CHANDLER, JOHN A.....	63 Hadley st.....	watchman
CHARLTON, RICHARD.....	538 Westford st.....	designer
CHARTERS, REUBEN P.....	112 Congress st.....	watchman
CHASE, FRANK K.....	40 Mt. Hope st.....	clerk
CHASE, GEORGE A.....	36 Canton st.....	superintendent
CHASE, GEORGE W.....	19 Lincoln st.....	contractor
CHEEVER, DAVID K.....	155 Branch st.....	dealer
CHENEY, EDWARDS.....	53 Chelmsford st.....	clerk
CHENEY, WILLIAM H.....	336 Stevens st.....	contractor
CHOQUETTE, ALBERT B.....	30 Common st.....	clerk
CHURCH, FREDERICK C.....	444 Fletcher st.....	insurance agent
CHURCHILL, LUDLOW D.....	214 Third st.....	clerk
CLARK, ARTHUR L.....	251 E. Merrimack st.....	grocer
CLARK, AVERY B.....	33 Anne st.....	superintendent
CLARK, CORNELIUS E.....	228 High st.....	machinist
CLARK, FRANK S.....	60 Chapel st.....	agent
CLARK, JOHN A.....	23 Oak st.....	clerk
CLARK, LUKE H.....	162 Avon st.....	grocer
CLARK, MARION S.....	84 Lane st.....	cashier
CLARK, T. FRANK.....	33 Davidson st.....	collector
CLAY, HENRY.....	31 Race st.....	box maker
CLAY, MILO D.....	411 School st.....	painter
CLEARY, DANIEL.....	47 Swift st.....	plasterer
CLEE, JOHN E.....	235 Plain st.....	operative
CLEE, WILLIAM.....	12 Wachusetts st.....	weaver
CLEMENT, DANIEL W.....	23 Emery st.....	clerk
CLEWORTH, WALTER.....	75 Huntington st.....	printer
CLIFFORD, CHARLES T.....	99 Westford st.....	dentist

## C

CLIFFORD, EVERETT A.....	20 Lane st.....	clerk
CLOUGH, CHARLES H.....	32 Fort Hill av.....	clerk
CLUER, ARTHUR H.....	3 Wachusetts st.....	harness dealer
CLUIN, JOHN J.....	130 Fort Hill av.....	jeweler
CLUNE, PETER A.....	39 Lawrence st. ct.....	barber
CLUNE, PETER J.....	10 Irving st.....	operative
COBB, FRANK.....	8 Varnum av.....	painter
COBURN, ALONZO A.....	19 Huntington st.....	manufacturer
COBURN, ARTHUR S.....	79 Oak st.....	clerk
COBURN, CHARLES H.....	793 Merrimack st.....	merchant
COBURN, CLARENCE G.....	215 Mammoth road.....	grocer
COBURN, FRANK A. P.....	759 Stevens st.....	farmer
COBURN, HARRY W.....	56 Sixth st.....	dentist
COBURN, LAURENS W.....	204 Cross st.....	clerk
COBURN, WALTER.....	14 Wannalancit st....	waste manufacturer
COFFIN, ABRAM.....	712 Suffolk st.....	carpenter
COLEMAN, PATRICK.....	139 Colburn st.....	boarding house keeper
COLLINS, DANIEL.....	39 Lyon st.....	laborer
COLLINS, JAMES HENRY.....	417 Bridge st.....	liquor dealer
COMMERFORD, THOMAS F.....	371 Adams st.....	clerk
CONANT, EDMUND B.....	39 Talbot st.....	appraiser
CONANT, FREDERICK.....	643 Westford st.....	manager
CONANT, GEORGE W.....	176 Cross st.....	electro-mechanic
CONDON, JOHN H.....	27 Cady st.....	janitor
CONLEY, JOHN F.....	30 Davidson st.....	plumber
CONLON, JOHN E.....	106 Chapel st.....	plumber
CONLEY, LEANDER F.....	69 Tolman av.....	overseer
CONLEY, MARTIN F.....	7 Richmond st.....	barber
CONNELL, RICHARD J.....	rear 28 Walnut st.....	printer
CONNELL, PAUL T.....	125 Stackpole st.....	printer
CONNERS, EDWARD F.....	163 Plain st.....	merchant



## C

CONNERS, PHILIP P.....	459	Chelmsford st.....	merchant
CONNOR, BERNARD A.....	3	Wiggin st.....	laborer
CONNORS, THOMAS J.....	5	Franklin ct., Adams st.....	laborer
CONWAY, ANTHONY A.....	88	Pleasant st.....	overseer
CONWAY, AUSTIN F.....	85	West Fourth st.....	laborer
COOKE, ALFRED.....	20	West Sixth st.....	clerk
COOLIDGE, FRANKLIN S.....	148	Methuen st.....	real estate
COOLEY, CHARLES W.....	68	Mt. Washington st.....	clerk
COONEY, DENNIS J.....	88	Linden st.....	laborer
COOPER, HENRY C.....	46	Talbot st.....	furniture
COPE, EDWIN.....	342	Pawtucket st.....	trader
CORBETT, MICHAEL.....	32	Highland st.....	dealer
CORCORAN, JOHN H.....	17	Watson st.....	laborer
CORLISS, AMMI L.....	9	Methuen st.....	machinist
COSGROVE, GEORGE H.....	6 re. 230	Fayette st.....	tannery
COSTELLO, JAMES E.....	27	Abbott st.....	steam fitter
COSTELLO, THOMAS F.....	295	Nesmith st.....	plumber
COTE, FRANCOIS M.....	139	Cushing st.....	painter
COUGHLIN, JEREMIAH.....	359	Concord st.....	gardener
COX, JOHN B.....	39	Summer st.....	machinist
COX, SIMON.....	71	Church st.....	shoemaker
COPELAND, CHARLES S.....	586	School st.....	electrotyper
COSSETTE, MARJORIQUE J.....	66	Willow st.....	clerk
CREPEAU, EMANUEL.....	534	Moody st.....	clerk
CREVIER, CHARLES.....	537	Fletcher st.....	blacksmith
CROSS, FRANK R.....	48	Brookside av.....	clerk
CRAIG, JOSEPH.....	30	Congress av.....	B. & M. R. R.
CRYSLER, H. STANLEY.....	20	Phillips st.....	architect
CRIMMIN, PATRICK.....	176	Adams st.....	clerk
CROOKER, ABEL F.....	30	Nichols st.....	painter
CROSBY, FREDERICK H.....	111	Moore st.....	mason
CROWELL, ALBERT.....	378	Rogers st.....	druggist

## C

CROWLEY, CORNELIUS F.....	38	Suffolk st.....	laborer
CROWLEY, DENNIS J.....	112	Walker st.....	clerk
CROWLEY, ROBERT E.....	115	Fort Hill av.....	agent
CROWN, GEORGE W.....	108	Livingston av.....	machinist
CUFF, JOHN H.....	18	Agawam st.....	shuttle maker
CUMMINGS, LAWRENCE.....	29	Huntington st.....	reporter
CUMMISKEY, JOHN J.....	14	Whipple st.....	watchman
CUNNINGHAM, ANTHONY J..rear	229	Adams st.....	mule spinner
CURRY, JAMES.....	105	Tremont st.....	steam fitter
CURTICE, BYRON F.....	181	W. London st.....	car inspector
CURTIN, JOHN J.....	141	High st.....	clerk
CURTIS, CHARLES E.....	433	Central st.....	machinist
CUSHING, JOSEPH L.....	32	Mt. Washington st.....	manufacturer
CUSTY, PATRICK J.....	96	Mt. Washington st.....	tinsmith
CUTLER, ARTHUR S.....	124	Dunbar av.....	architect
CUTLER, JOHN S.....	772	Varnum av.....	barber

## D

DAHLBERG, HARRY E.....	256	Appleton st.....	clerk
DAILEY, JOHN.....	159	Chapel st.....	operative
DALLAGHER, JOSEPH W.....	37	Albion st.....	laborer
DALEY, WILLIAM Jr.....	11	Mill st.....	barber
DALY, FRANK W. S.....	66	Grand st.....	clerk
DANA, CLARENCE W.....	459	Dutton st.....	machinist
DANA, WILLIAM H.....	170	Holyrood av.....	retired
DANAHY, JOHN J.....	22	Crowley st.....	tinsmith
DANE, GEORGE F.....	53	Oakland st.....	B. & M. R. R.
DANIELS, JOHN S.....	553	Chelmsford st.....	farmer
DAVID, ALBERT W.....	60	Fort Hill av.....	clerk
DAVID, PHILEAS, Jr.....	37	B st.....	painter
DAVIS, CHARLES O.....	14	Edson st.....	lumber dealer

## D

DAVIS, NATT A.....	80 Howard st.....	clerk
DAVIS, FRANK O.....	14 Edson st.....	clerk
DAWSON, JAMES.....	84 So. Whipple st.....	paper hanger
DAWSON, JOSEPH F.....	7 Pollard av.....	plumber
DEAN, SIMON.....	516 Lawrence st.....	clerk
DEARBORN, CHARLES O.....	31 Barclay st.....	clerk
DELEHANTY, THOMAS F.....	129 Tremont st.....	mule spinner
DELISLE, ELIE.....	150 Pawtucket st.....	furniture dealer
DELMAGE, WILLIAM A.....	48 Fourth st.....	janitor
DENAULT, HUBERT.....	743 Merrimack st.....	pianos
DENNETT, ALVANUS M.....	57 Fourth st.....	pawnbroker
DENNING, LEVI.....	171 Mt. Hope st.....	grocer
DENNIS, JOHN N.....	275 Summer st.....	manufacturer
DERBY, LUCIUS A.....	148 First st.....	electrician
DESMARAIS, PHILIP.....	Lamb st.....	clerk
DESMOND, JOHN.....	41 Rock st.....	operative
DEVINE, PHILIP.....	61 Chapel st.....	moulder
DEVOLL, ANDREW J.....	53 Thirteenth st.....	salesman
DEWAR, DAVID W.....	364 Beacon st.....	cashier
DEXTER, OREL K.....	20 Starbird st.....	blacksmith
DEXTRA, JOSEPH.....	534 Merrimack st.....	barber
DICKEY, THOMAS L.....	337 High st.....	insurance
DICKINSON, WATSON A.....	190 Branch st.....	manufacturer
DICKSON, DAVID.....	142 Smith st.....	tea dealer
DILWORTH, DENNIS.....	44 Merrill st.....	overseer
DRAPEAU, WILLIAM.....	3 Hancock av.....	carpenter
DREWETT, SIDNEY.....	72 Twelfth st.....	trunk dealer
DODGE, ALLEN.....	353 Westford st.....	real estate
DODGE, EDWARD P.....	39 Washington st.....	overseer

## D

DOHERTY, HENRY P.....	93 Adams st.....	painter
DOHERTY, JOHN J.....	20 Mill st.....	mattress maker
DONOHOE, DENNIS.....	16 Merrill st.....	machinist
DONOHOE, MICHAEL F.....	367 Worthen st.....	machinist
DONAHUE, CORNELIUS F.....	83 Kinsman st.....	clerk
DOW, JAMES.....	149 B st.....	contractor
DOYLE, DANIEL P.....	290 Plain st.....	laborer
DOZOIS, HILAIRE.....	363 Dutton st.....	overseer
DRURY, JOHN E.....	44 Hanks st.....	plumber
DUANE, MICHAEL.....	146 Chapel st.....	shoe dealer
DUGDALE, JAMES P.....	48 Marlborough st.....	tobacconist
DUMAS, ERNEST G.....	55 Huntington st.....	bookbinder
DUNKLEE, BEN F.....	67 London st.....	foreman
DUNLAP, HARRY.....	20 Nesmith st.....	merchant
DUNN, JAMES J.....	508 Gorham st.....	stone cutter
DUPONT, EXADIUS.....	80 Cabot st.....	gentleman
DUTTON, WALTER E.....	11 Third av.....	foreman
DWYER, JOHN F.....	262 Concord st.....	painter
DWYER, WILLIAM E.....	371 Central st.....	barber

## E

EAMES, MELVIN.....	155 West Sixth st.....	pattern maker
EASTMAN, HENRY F.....	327 East Merrimack st.....	draughtsman
EATON, CHARLES W.....	108 Myrtle st.....	broker
EATON, DANIEL A.....	107 Myrtle st.....	insurance clerk
EDGEELL, FRED N.....	119 Andover st.....	collector
EDWARDS, CHARLES F.....	196 Hale st.....	designer
ELLINGWOOD, EDWARD.....	56 Huntington st.....	druggist
ELLINGWOOD, GEORGE B.....	240 E. Merrimack st.....	clerk
EMERY, WILLIAM H.....	Merrimack house.....	real estate



## E

EMSLEY, GEORGE.....	20	Weed st.....	comb maker
ENRIGHT, CORNELIUS F.....	11	Cedar st.....	painter
ESTES, FRED A.....	35	Burt st.....	clerk
EVANS, FREDERICK.....	9	Blossom st.....	marble cutter
EVANS, FRED F.....	23	Lombard st.....	grocer
EVANS, GEORGE C.....	34	Thirteenth st.....	hay and grain dealer
EVANS, LEONARD Jr.....	30	Parkview av.....	mechanic
EVERETT, WILLARD.....	12	Belmont st.....	manager

## F

FAGAN, FRANCIS M.....	18	Newhall st.....	clerk
FAIRBURN, GEORGE.....	173	Stackpole st.....	provisions
FALLON, FRANK J.....	11	Little st.....	machinist
FARLEY, JOSEPH.....	517	Lawrence st.....	barber
FARNHAM, BURTON W.....	100	Fort Hill av.....	civil engineer
FARRELL, JOHN J.....	624	Market st.....	machinist
FARRINGTON, CHARLES E.....	20	Webster st.....	machinist
FARRINGTON, WILLIS.....	234	Nesmith st.....	manufacturer
FAVREAU, WILLIAM A.....	779	Merrimack st.....	clerk
FAY, JOSEPH F.....	1	Mt. Pleasant st.....	farmer
FAIRWEATHER, WILLIAM.....	756	School st.....	machinist
FAY, HENRY J.....	50	Lawrence st.....	salesman
FAY, PAUL F.....	49	Kirk st.....	machinist
FELS, AUGUST.....	989	Lakeview av.....	manufacturer
FELTON, HENRY F.....	386	Andover st.....	organist
FENDERSON, CHARLES H.....	429	Worthen st.....	machinist
FENNELL, NICHOLAS J.....	178	West London st.....	barber
FIELD, ALBERT L.....	1057	Gorham st.....	druggist
FIELD, JAMES F.....	137	Stackpole st.....	printer
FIFE, JAMES.....	46	Merrill st.....	machinist
FIFIELD, GEORGE W.....	1180	Middlesex st.....	manufacturer

## F

FINNEGAN, JAMES W.....	122 Merrimack corp.....	overseer
FINNERTY, HUGH.....	191 Fayette st.....	laborer
FINNERTY, PATRICK J.....	196 Fayette st.....	laborer
FISH, CHARLES T.....	26 Dover st.....	agent
FISHER, JOHN J.....	236 Broadway .....	machinist
FITZGERALD, DAVID.....	12 Linden st.....	gentleman
FITZGERALD, PATRICK.....	93 B st.....	laborer
FITZGERALD, PATRICK.....	31 Marion st.....	clerk
FITZGIBBON, PATRICK.....	503 Gorham st.....	shoemaker
FLANAGAN, FRANK P.....	22 Westford st.....	clerk
FLANDERS, CHARLES H.....	8 Osgood st.....	foreman
FLANNAGAN, JOHN J.....	173 Fayette st.....	operative
FLATHER, FREDERICK A.....	62 Mt. Vernon st.....	engineer
FLEMINGS, FREDERICK J.....	333 High st.....	paper dealer
FLEMINGS, JAMES F.....	393 High st.....	clerk
FLEMING, SAMUEL.....	36 Hildreth st.....	janitor
FLETCHER, MARCELUS H.....	49 Powell st.....	gentleman
FLETCHER, MILES.....	129 Church st.....	student
FLETCHER, SILAS W.....	120 Agawam st.....	manufacturer
FLINT, GEORGE W.....	1161 Bridge st.....	real estate
FLOWER, ALBERT G.....	134 Sixth st.....	carder
FLOOD, TERRENCE E.....	30 Davidson st.....	operative
FLYNN, EDWARD S.....	837 Central st.....	machinist
FLYNN, EUGENE F.....	32 Cady st.....	finisher
FLYNN, PATRICK.....	12 Bleachery st.....	L. & S. St. Ry.
FLYNN, JAMES.....	12 Cedar st.....	teamster
FOLSOM, HENRY W.....	77 Mt. Vernon st....	overseer
FORREST, CHARLES M.....	30 Tyler Park.....	lumber dealer
FOSTER, BENJAMIN F.....	63 C st.....	second hand
FOSTER, HIRAM A.....	209 Cabot st.....	machinist
FOSTER, SAMUEL W.....	21 Sixth st.....	overseer
FOSTER, WILLIAM.....	9 Wilsondale place.....	machinist



## F

FOSS, ETHER S.....	215 Stevens st.....	contractor
FOWLER, GEORGE L.....	1781 Middlesex st.....	contractor
FOX, WARREN.....	209 Summer st.....	gentleman
FOY, JOHN J.....	469 Pine st.....	clerk
FREEMAN, BENJAMIN F.....	25 Fort Hill av.....	lighting dept
FREEMAN, JAMES E.....	83 Andrews st.....	grocer
FRENCH, ALBERT F.....	213 Parkview av.....	clerk
FROST, CHANNING A.....	1677 Middlesex st.....	dealer
FROST, CHARLES H.....	26 Central st.....	jeweler
FRYE, GEORGE H.....	36 Second st.....	inspector sewers
FULLER, GEORGE B.....	1524 Gorham st.....	contractor
FULLER, WILLIAM H.....	408 Pine st.....	contractor
FULTON, ROBERT S.....	27 Myrtle st.....	clerk
FLETCHER, BENJAMIN.....	129 Church st.....	agent

## G

GAHAGAN, EDWARD W.....	205 Church st.....	clerk
GAHAGAN, JAMES F.....	205 Church st.....	plumber
GALE, CHARLES A.....	23 Jenness st.....	clerk
GALLAGHER, PETER.....	83 Lakeview av.....	hair dresser
GALLAGHER, THOMAS.....	40 Wamesit st.....	painter
GALLAGHER, WILLIAM H.....	37 Elmwood av.....	Ins. Agt.
GAMELIN, GEORGE E.....	1 Gage st.....	clerk
GARDNER, EVERETT M.....	198 Holyrood av.....	architect
GARMON, JOSEPH A.....	78 Nineteenth st.....	J. C. Ayer Co.
GARVEY, MICHAEL J.....	203 Broadway .....	liquor dealer
GATES, HENRY K.....	406 E. Merrimack st.....	coal dealer
GATES, PRESCOTT C.....	400 E. Merrimack st....	belt manufacturer
GATES, ROYAL W.....	73 Gates st.....	belt manufacturer
GAUTHIER, AMIE.....	520 Merrimack st.....	book dealer
GERRY, EDGAR A.....	27 Humphrey st.....	express mess.
GILLIGAN, JAMES.....	14 Kinsman st.....	currier

## G

GILLMORE, WILLIAM H.....	146	Fawtucket st.....	shoe cutter
GILLOGLEY, OWEN.....	27	Walnut st. ....	laborer
GILLON, HUGH F.....	84	Bartlett st.....	editor
GILMORE, WILLIAM.....	39	Walnut st.....	clerk
GINTY, PHILIP.....	1011	Central st.....	slater
GLIDDEN, CHARLES J.....	1131	Middlesex st.....	telephone
GODDARD, CHARLES R.....	30	Marlborough st.....	paymaster
GOODALE, OAL B.....	19	Robinson st. ct.....	marble cutter
GOODALL, SAMUEL.....	417	Dutton st.....	watchman
GOODELL, HARLAN P.....	14	Highland st.....	dealer
GOODWIN, CHESTER S.....	15	Bleachery st.....	finisher
GOODELL, WILLIAM N.....	271	Foster st.....	salesman
GOOCH, MELVIN G.....	223	School st.....	carpenter
GOOKIN, JAMES.....	300	Concord st.....	furniture dealer
GORDON, JOHN G.....	545	Middlesex st.....	clerk
GORMAN, JAMES.....	42	Hudson st.....	spinner
GORMAN, JAMES E.....	412	Gorham st.....	boots and shoes
GORMAN, JOHN J.....	25	Palmer st.....	tailor
GORMAN, MICHAEL.....	42	Hudson st.....	operative
GORMLEY, EDWARD F.....	31	Washington st.....	clerk
GORMLEY, JOSEPH H.....	27	Lyon st.....	clerk
GOULD, SUMNER S.....	112	Fremont st.....	manager
GOULDING, WILLIAM H.....	123	Walker st.....	slater
GOULET, JOSEPH W.....	477	Moody st.....	baker
GOWARD, EDWARD T.....	274	Appleton st.....	gentleman
GRADY, JAMES.....	398	Lincoln st.....	carpenter
GRADY, JOHN J.....	492	Market st.....	clerk
GRANT, ALBERT F.....	244	Gibson st.....	dry goods
GRAY, ALANSON.....	99	So. Walker st.....	provision dealer
GRAY, ANDREW A.....	19	Tolman av.....	clerk
GRAY, HARRY.....	93	Dover st.....	grocer
GRAY, JOHN J.....	10	Kinsman st.....	real estate

## G

GREEN, CHARLES A.....	714	Varnum av.....	farmer
GREEN, FRANK J.....	50	Marginal st.....	clerk
GREEN, GEORGE J.....	368	Lawrence st.....	machinist
GREEN, HARRY C.....	69	East Forrest st.....	real estate
GREENE, HARVEY B.....	301	Foster st.....	florist
GREEN, JOHN.....	240	Thorndike st.....	engineer
GREEN, JOHN J.....	166	Smith st.....	dealer
GREEN, LORIN.....	179	Warwick st.....	railroad
GREENWOOD, OTHELLO O.....	180	Hale st.....	dealer
GREGG, GEORGE V.....	40	Robbins st.....	tailor
GREGG, JAMES W.....	224	First st.....	secretary
GREIG, ALEXANDER.....	52	Cambridge st.....	carpenter
GRIFFIN, JOHN.....	161	Merrimack corp.....	laborer
GRIFFIN, JOSEPH W.....	549	Westford st.....	gentleman
GREGOIRE, PIERRE L.....	493	Moody st.....	musician
GRIMARD, ARTHUR J.....	1	Gage st.....	clerk
GROVER, HERBERT E.....	62	Fifth st.....	barber
GUILLE, ALBERT S.....	18	Arlington st.....	broker
GUMB, HARRY M.....	17	Fay st.....	stone cutter

## H

HALL, CHARLES O.....	526	Moody st.....	provisions
HALL, LEROY C.....	23	June st.....	commission merchant
HALL, THALLES P.....	149	Stackpole st.....	real estate
HALLOWELL, CHARLES E.....	743	Bridge st.....	machinist
HALSTEAD, CHARLES W.....	110	Bartlett st.....	clerk
HAMEL, ALFRED.....	524	Merrimack st.....	machinist
HAMILTON, AMASA S.....	38	Race st.....	express
HAMILTON, CHARLES A.....	10	East L st.....	cabinet maker
HANFORD, FRANK T.....	31	Tyler st.....	clerk
HANSBURY, JAMES W.....	210	Lakeview av.....	machinist
HANSON, HORACE R.....	333	Worthen st.....	machinist

## H

HANSON, JAMES S.....	584	Westford st.....	trader
HAPGOOD, EDGAR.....	221	High st.....	manufacturer
HAPGOOD, FRANK W.....	538	Moody st.....	machinist
HARDMAN, DAVID B.....	123	Agawam st.....	printer
HARRIGAN, WILLIAM H.....	580	School st.....	clerk
HARRINGTON, JOHN J.....	61	Worthen st.....	operative
HARRIS, ARTHUR W.....	27	Harrison st.....	merchant
HARRIS, EUGENE A.....	659	School st.....	real estate
HARRIS, FRED E.....	4	Wright st.....	engineer
HARRIS, GEORGE H.....	37	Blossom st.....	operative
HARRIS, GEORGE W.....	158	Mt. Vernon st.....	manufacturer
HARRISON, HARRY.....	24	Arthur st.....	machinist
HART, BOWERS F.....	39	Shedd st.....	architect
HART, WILLIAM R.....	16	Varney st.....	clerk
HART, DANIEL J.....	84	School st.....	baker
HARTWELL, GEORGE W.....	649	Westford st.....	asst. supt. streets
HARVEY, ELMER E.....	59	Lamb st.....	carpenter
HATCH, ARTHUR E.....	505	Westford st.....	foreman
HATCH, HENRY.....	65	Fay st.....	grocer
HAWES, FRANK B.....	26	Eleventh st.....	clerk
HAWES, WILLIAM H.....	59	Canton st.....	merchant
HAWKES, LEVI W.....	228	Wentworth av.....	furniture dealer
HAWORTH, JOHN H.....	43	Columbus av.....	manufacturer
HAYNES, FRANK H.....	430	Wilder st.....	provision dealer
HEALD, ALFRED C.....	790	Merrimack st.....	salesman
HEMMINGWAY, JOSEPH H.....	139	Methuen st.....	gentleman
HENDRICKS, JOHN T.....	296	Tanner st.....	laborer
HICKEY, CORNELIUS L.....	20	Kinsman st.....	spinner
HICKS, JOSEPH.....	119	Gates st.....	clerk
HIGGINS, DANIEL J.....	132	Church st.....	operative
HIGGINS, PATRICK.....	872	Central st.....	machinist
HIGGINS, WESLEY R.....	82	Read st.....	painter



## H

HILL, EDGAR M.....	16	Cottage st.....	reporter
HILL, GEORGE B.....		Merrimack house.....	insurance agent
HILL, GEORGE F.....	263	Appleton st.....	carriage maker
HILL, JAMES E.....	279	Thorndike st.....	inspector
HILL, JAMES G.....	263	Appleton st.....	carriage maker
HILTON, HORTON H.....	52	Blodgett st.....	clerk
HOBSON, CHARLES H.....	26	Hanks st.....	manager
HOLDEN, EDWARD D.....	284	Wilder st.....	manufacturer
HOLGATE, SAMUEL.....	6	Hamilton corp.....	second hand
HOLLAND, WALTER H.....	32	Pine Hill st.....	mattress maker
HOLMES, CHRISTOPHER.....	16	Belrose av.....	merchant
HOOLE, HENRY.....	66	Bartlett st.....	machinist
HOLT, WILLIS H.....	8	Hale st.....	clerk
HOPE, ARTHUR L.....	10	Belmont st.....	machinist
HORNE, FRED.....	150	Westford st.....	coal dealer
HOSMER, SAMUEL.....	42	Hamilton corp.....	overseer
HOULE, EDWARD S.....	81	Mt. Vernon st.....	druggist
HOWARD, JAMES.....	19	Ellsworth st.....	folder
HOWE, ALFRED J.....	4	Eighth av.....	real estate
HOWE, CHARLES E.....	45	Varney st.....	lumber dealer
HOWE, EDWARD S.....	915	Varnum av.....	farmer
HOWE, HARRY W. J.....	4	Eighth av.....	real estate
HOWE, WALTER H.....	315	Summer st.....	real estate
HOWELL, WAKEFIELD D.....	50	First st.....	clerk
HUGHES, JOHN.....	33	Concord st.....	steam fitter
HULL, GEORGE S.....	583	Central st.....	manufacturer
HUMPHRISS, FREDERICK G.....	18	Manchester st.....	weaver
HUNT, LEONARD D.....	234	Cabot st.....	overseer
HUNT, WILLIAM F.....	25	Wamesit st.....	loom fixer
HUNTER, JAMES F.....	9	Harrison st.....	barber
HUNTOON, GEORGE L.....	37	Butterfield st.....	broker
HURD, FRANK W.....	19	Harrison st.....	treasurer

# H

HUSBAND, THOMAS H.....	13 Davis sq.....	switchman
HUTCHINSON, CHARLES C.....	187 Nesmith st.....	treasurer
HUTCHINSON, HENRY C.....	181 School st.....	pattern-maker
HYDE, DANIEL.....	790 Broadway .....	machinist
HYDE, MARTIN.....	5 Floyd st.....	sash-maker
HYLAN, EUGENE S.....	28 Nesmith st.....	manufacturer

# I

ILSLEY, PHILIP H.....	513 Westford st.....	trade
INGHAM, WILLIAM A.....	1179 Middlesex st.....	wholesale grocer
IRISH, WILL F.....	177 Fort Hill av.....	salesman
IRVING, ANDREW.....	rear 28 Walnut st.....	laborer
IRVING, WILLIAM J.....	rear 28 Walnut st.....	weaver
IRWIN, JOHN M.....	83 Pine st.....	wholesale confectioner

# J

JACOBS, HERBERT M.....	176 Westford st.....	carpenter
JANVRIN, JOSEPH A.....	51 Fifth st.....	clerk
JEFFERS, GEORGE B.....	15 Pollard st.....	clerk
JENNESS, FRED W.....	710 Chelmsford st.....	dealer
JENNISON, GEORGE H.....	45 Kirk st.....	dentist
JOHNSON, COOLIDGE R.....	23 Harvard st.....	watchman
JOHNSON, FRANKLIN E.....	19 Royal st.....	clerk
JOHNSON, FRANCIS.....	494 Lawrence st.....	dealer
JOHNSON, ISAAC G.....	96 Shaw st.....	carpenter
JOHNSON, MICHAEL J.....	323 Suffolk st.....	musician
JOHNSON, WILLIAM J.....	47 Kirk st.....	milliner
JOCKOW, GEORGE W.....	895 Middlesex st.....	carpenter
JONES, EDWARD A.....	342 Walker st.....	machinist
JUDKINS, CHARLES J. H.....	10 rear 208 Appleton st.....	clerk



## K

KANE, PATRICK F.....	37	Elm st.....	grocer
KEEFE, JAMES.....	453	Lawrence st.....	barber
KEEGAN, THOMAS M.....	20	Ellsworth st.....	janitor
KEITH, AUSTIN.....	223	Wentworth av.....	druggist
KELLEY, EDWARD W.....	129	Moore st.....	draughtsman
KELLEY, JOHN A.....	58	West Third st.....	painter
KELLEY, JOHN F.....	11	Burnside st.....	carpenter
KENDALL, CHARLES A.....	12	Simpson place.....	dealer
KENNEDY, DANIEL.....	2 rear 42	Keene st.....	mattress maker
KENNEDY, JAMES J.....	31	Marion st.....	barber
KERR, NATHANIEL B.....	67	Kirk st.....	mill agent
KEYES, HENRY F.....	372	Broadway .....	gentleman
KEYES, HENRY J.....	372	Broadway .....	clerk
KEYES, JULIAN B.....	102	Third st.....	bank teller
KIDDER, CHARLES F.....	1	Spaulding st.....	clerk
KIERNAN, PATRICK.....	35	Ludlam st.....	loom fixer
KILBRIDE, PATRICK.....	14	Stanley st.....	provision dealer
KILGORE, FRED H.....	27	Windsor st.....	life underwriter
KILLPATRICK, SAMUEL W.....	1057	Middlesex st.....	fruit dealer
KING, JOHN C.....	69	Chestnut st.....	clerk
KINGSBURY, ALPHEUS R.....	90	Billings st.....	blacksmith
KITTREDGE, ABNER L.....	101	Myrtle st.....	merchant
KITTREDGE, LUTHER F.....	42	Jenness st.....	stone contractor
KNAPP, CHARLES L.....	85	Fort Hill av.....	cashier
KNAPP, FRED L.....	153	Westford st.....	manufacturer
KNAPP, JOEL.....	153	Westford st.....	manufacturer

## L

LACOUTURE, JOSEPH S.....	51	Rock st.....	clerk
LAMOTHE, LOUIS P.....	51	Mammoth road.....	baker
LANDERS, WILLIAM H.....	397	Dutton st.....	overseer
LANE, STEPHEN H.....	4	Pine st.....	carpenter
LANG, HORACE B.....	85	Forrest st.....	carpenter
LARRABEE, GEORGE C.....	15	Corner st.....	clerk
LAWRENCE, ABBOTT.....	113	Fort Hill av.....	optician
LAWRENCE, FRANK C.....	70	Smith st.....	car inspector
LEARY, DENNIS J.....		American house.....	hotel
LEAVITT, GEORGE E.....	99	Mt. Washington st.....	foreman
LEBLANC, ALFRED.....	6	Davidson st.....	grocer
LEE, MICHAEL A.....	8	Livermore st.....	carpenter
LEITH, NORMAN.....	35	London st.....	blacksmith
LEITH, WILLIAM H.....	24	Walnut st.....	grocer
LIBBEE, GEORGE F.....	58	Wannalancit st.....	trader
LIBBY, CHARLES F.....	69	Robbins st.....	manager
LIBBY, FRED V.....	56	Harvard st.....	clerk
LIBBY, MARTIN V. B.....	331	Walker st.....	blacksmith
LIBBY, OLIVER C.....	399	Stevens st.....	printer
LIDDELL, ANDREW.....	25	Twelfth st.....	collector
LITTLE, JOHN.....	52	Middlesex st.....	fireman
LITTLE, MOSES.....	77	Mansur st.....	merchant
LIVINGSTON, CORNELIUS S.....	208	Branch st.....	clerk
LIVINGSTON, EPHRAIM D.....	287	Westford st.....	printer
LIVINGSTON, WILLIAM.....	77	Livingston av.....	clerk
LOCKE, HERBERT W.....	187	Hovey st.....	grocer
LOFGREN, HALVAR.....	25	Crowley st.....	foreman
LUNDBERG, FRANK G.....	44	Fay st.....	laundryman
LUSCOMB, CHARLES H.....	44	Mammoth road.....	painter
LYMAN, ARTHUR R.....	431	Wilder st.....	clerk
LYNCH, THOMAS F.....	19	James st.....	steam fitter

## L

LYNCH, THOMAS J.....	93 Andrews st.....	laborer
LYNCH, THOMAS J.....	31 Crowley st.....	clerk
LYONS, JOHN K.....	13 Summer st.....	pin maker

## M

MADIGAN, MICHAEL A.....	23 Bassett st.....	marble polisher
MAGEE, JOHN J.....	359 Lawrence st.....	grocer
MAGUIRE, HENRY J. Jr.....	91 Hastings st.....	clerk
MAGUIRE, THOMAS F.....	22 Varney st.....	advertising agent
MAHONEY, JOHN P.....	41 Butterfield st.....	assessor
MAHONEY, THOMAS.....	46 Butterfield st....	boarding house keeper
MARDEN, GEORGE A.....	84 Fairmount st.....	editor
MARDEN, PHILIP S.....	84 Fairmount st.....	insurance agent
MARKHAM, MICHAEL J.....	334 Central st.....	dealer
MARSHALL, ARTHUR H.....	538 Varnum av.....	farmer
MARSHALL, JAMES G.....	1067 Gorham st.....	paymaster
MARSTON, GEORGE H.....	775 Bridge st.....	real estate
MARTIN, EDWARD F.....	543 Gorham st.....	grocer
MARTIN, FAY H.....	333 Dutton st.....	overseer
MARTIN, WILLIAM F.....	26 North st.....	tailor
McALEER, MICHAEL.....	29 Andover st.....	operative
McALOON, WILLIAM.....	157 Howard st.....	retired
McARDELL, EDWARD.....	50 West st.....	machinist
McCAFFREY, ANDREW.....	8 Pond st.....	laborer
McCAFFREY, FRANCIS E.....	6 re. 230 Fayette st.....	operative
McCAFFREY, THOMAS.....	127 Fayette st.....	operative
McCAFFREY, THOMAS J.....	149 Concord st.....	painter
McCANN, ARTHUR.....	9 New st.....	shoe dealer
McCANN, JAMES.....	rear 304 Adams st.....	mule spinner
McCANN, PATRICK.....	412 Lincoln st.....	laborer

## M

McCARTHY, FRANCIS B.....	203 Mt. Vernon st.....	clerk
McCARTHY, JAMES F.....	268 Suffolk st.....	clerk
McCARTHY, JOHN J.....	244 Broadway .....	clerk
McCARTY, JAMES D.....	34 D st.....	laborer
McCARTY, JOHN J.....	624 Central st.....	clerk
McCLUSKEY, JOHN.....	161 Lakeview av.....	gentleman
McCLUSKY, WILLIAM J.....	40 Union st.....	student
McCUE, MICHAEL H.....	781 Broadway.....	water works
McDANIELS, WALTER H.....	437 E. Merrimack st.....	manufacturer
McDONALD, JAMES L.....	221 Foster st.....	provision dealer
McDONALD, JOSEPH A.....	386 Mammoth road.....	merchant
McDONALD, RUSSELL.....	299 Baldwin st.....	grocer
McDOUGALL, JAMES.....	1019 Central st.....	machinist
McELHOLM, DANIEL B.....	171 Andover st.....	weaver
McELHOLM, WILLIAM H.....	188 Concord st.....	plumber
McEVOY, PATRICK.....	17 Floyd st.....	painter
McGARRAHAN, JAMES.....	78 Appleton st.....	machinist
McGAUVVRAN, WILLIAM H.....	37 Arlington st.....	clerk
McGOVERN, JOHN.....	31 Pearl st.....	driver
McGRATH, JOSEPH H.....	88 Coburn st.....	janitor
McGUIRE, PHILIP F.....	2 Merrill's ct.....	weaver
McINTIRE, GEORGE E.....	605 Wilder st.....	machinist
McINTYRE, WILLIAM G.....	734 Merrimack st.....	clerk
McKEON, JAMES E.....	184 Chelmsford st.....	clerk
McKINLEY, ROBERT.....	231 Cabot st.....	machinist
McLAUGHLIN, FRANK A.....	30 Pleasant st.....	plumber
McLAUGHLIN, JOHN F.....	39 Andover st.....	confectioner
McMAHON, FRANK.....	539 Chelmsford st.....	machinist
McMAHON, JOSEPH F.....	136 South st.....	plumber
McMAHON, PETER.....	39 Carter st.....	bleachery employe
McMAHON, THADY.....	11 Watson st.....	barber
McMULLEN, MICHAEL.....	20 Charles st.....	operative

## M

McNALLY, JAMES R.....	261 Thorndike st.....	blacksmith
McNULTY, PHILIP.....	9 Lyon st.....	clerk
McOSKER, HUGH C.....	209 Stackpole st.....	wall paper
McPARLAND, JOHN.....	32 Abbott st.....	spinner
McQUADE, ARTHUR.....	65 Pleasant st.....	foundry foreman
McQUADE, JOHN J.....	40 Lyon st.....	clerk
McQUADE, MICHAEL.....	65 Pleasant st.....	overseer
McQUESTEN, JOHN.....	89 Washington st.....	clerk
McVEY, DANIEL F.....	135 Gorham st.....	plumber
MEAD, ASA W.....	3 Wachusett st.....	machinist
MEADE, WILLIAM V.....	77 Linden st.....	clerk
MEALEY, JOHN R.....	172 Howard st.....	stencil cutter
MERRILL, FRANK M.....	156 Tenth st.....	dealer
MERRILL, OTIS A.....	92 Wannalancit st.....	architect
MEYER, WOLF.....	305 Middlesex st.....	tailor
MILES, WALDO F.....	197 Appleton st.....	clerk
MILLER, EDWARD H.....	47 Seventh av.....	operative
MILLER, GEORGE W.....	75 Howard st.....	railroad
MILLER, HENRY.....	38 Sixth st.....	real estate
MILLER, JOSEPH.....	32 Sheldon st.....	clerk
MILLER, JOSEPH H.....	284 Fletcher st.....	clerk
MISKELLA, JAMES F.....	35 Mead st.....	clerk
MITCHELL, JAMES W.....	79 Mt. Washington st.....	overseer
MITTEN, ANTHONY D.....	43 A st.....	blacksmith
MOLLEUR, EDWARD J.....	717 School st.....	clerk
MONGRAIN, WILBROD.....	465 Moody st.....	blacksmith
MOONEY, PATRICK H.....	71 Agawam st.....	plumber
MOORE, WALTER T.....	21 Belmont st.....	coal dealer
MORIN, JOSEPH U.....	812 Merrimack st.....	butter dealer
MORRIS, WILLIAM.....	165 Pleasant st.....	painter
MORRISEY, FRANK T.....	46 Albion st.....	janitor
MORRISON, FRED W.....	88 Fort Hill av.....	salesman



## M

MORRISON, JAMES F.....	46 Auburn st.....	barber
MORSE, EDWARD H.....	735 Broadway.....	livery stable
MORSE, WILLIS E.....	70 Third st.....	electrician
MORTON, ALBERT H.....	67 Canton st.....	superintendent
MOTLEY, GEORGE S.....	95 Nesmith st.....	gentleman
MOULTON, JAMES W.....	258 Varnum av.....	clerk
MULDOON, OWEN.....	33 Marginal st.....	laborer
MULDOON, THOMAS.....	427 Lincoln st.....	piper
MULDOON, THOMAS H.....	268 Suffolk st.....	clerk
MULLIGAN, THOMAS J.....	92 Pleasant st.....	reporter
MUNN, FRANCIS D.....	603 Bridge st.....	grocer
MUNN, FRANCIS D. Jr.....	32 W. Sixth st.....	grocer
MURKLAND, ARTHUR J.....	313 High st.....	clerk
MURKLAND, JAMES.....	313 High st.....	foreman
MURKLAND, WALTER E.....	313 High st.....	clerk
MURPHY, DENNIS.....	33 Tyler st.....	merchant
MURPHY, FRANK B.....	348 Wilder st.....	real estate
MURPHY, JAMES.....	221 Foster st.....	real estate
MURPHY, JEREMIAH F.....	133 Mt. Hope st.....	clerk
MURPHY, JOHN D.....	14 Walnut st.....	operative
MURPHY, JOHN F.....	112 Jefferson st.....	clerk
MURPHY, JOSEPH F.....	108 Congress st.....	laborer
MURPHY, WILLIAM W.....	360 Westford st.....	dealer
MURRAY, BARTHOLOMEW F.....	394 Adams st.....	real estate
MURRAY, FRANK.....	44 Worthen st.....	operative
MURRAY, JOHN J.....	738 Central st.....	operative
MUSSEY, GEORGE L.....	71 Branch st.....	clock repairer
MYERS, WILLIAM.....	12 Barrington st.....	overseer



## N

NAY, HOMER B.....	382 Worthen st.....	engineer
NAYLOR, CHARLES.....	250 Wentworth av.....	druggist
NEALE, ELISHA J.....	327 Beacon st.....	merchant
NELSON, WILLIAM.....	8 Bassett st.....	tea dealer
NESMITH, JOSEPH A.....	229 Andover st.....	gentleman
NESTOR, PATRICK F.....	242 Thorndike st.....	janitor
NEWHALL, HENRY L.....	225 Mammoth road.....	paymaster
NICHOLS, FRANK C.....	800 Broadway .....	foreman
NICHOLS, GEORGE.....	5 Marin place.....	printer
NOBLE, GEORGE H.....	362 Broadway.....	real estate
NOBLE, JOHN.....	21 Carter place.....	second hand
NOLAN JOHN H.....	89 Christian st.....	laborer
NORCOTT, WILLIAM W.....	Westford st.....	superintendent
NORCROSS, NICHOLAS G.....	69 Huntington st.....	insurance agent

## O

O'BRIEN, DANIEL J.....	257 Rogers st.....	tea dealer
O'BRIEN, JOHN.....	32 Whipple st.....	blacksmith
O'BRIEN, JOHN J.....	111 High st.....	wool sorter
O'BRIEN, JOHN J.....	399 Worthen st.....	second hand
O'CONNELL, JOHN J.....	61 Newhall st.....	liquor dealer
O'CONNELL, THOMAS D.....	130 Cross st.....	liquor dealer
O'CONNOR, MICHAEL J.....	900 Gorham st.....	stone cutter
O'DWYER, JEREMIAH J.....	145 Midland st.....	conductor
OFFUTT, GEORGE F.....	315 High st.....	merchant
OGDEN, JOHN T.....	4 Olive st.....	second hand
O'HARE, FRANK.....	25 Bassett st.....	laborer
O'HARE, JAMES.....	167 Warren ct.....	plumber
O'HARE, JOHN P.....	167 Warren ct.....	weaver
O'HEARN, PATRICK.....	282 Riverside st.....	contractor
OLIVER, JOHN.....	330 Pawtucket st.....	florist

## O

O'MEARA, MARTIN.....	969 Central st.....	dealer
O'NEIL, JOHN H.....	241 Appleton ....st.....	tinsmith
ORT, JOHN J.....	18 Broadway .....	blacksmith
O'SHEA, MICHAEL.....	16 Pleasant st.....	machinist
OSTERHOUT, FRED S.....	159 Middlesex st.....	clerk
O'SULLIVAN, HUMPHREY.....	105 Butterfield st.....	shoe dealer
O'SULLIVAN, JAMES.....	105 Mt. Washington st.....	shoe dealer
OWEN, GEORGE E.....	221 High st.....	accountant

## P

PAGE, HORACE C.....	410 Westford st.....	clerk
PAGE, OCTAVE.....	536 Fletcher st.....	baker
PAQUETTE, JOSEPH A.....	344 Varnum av.....	barber
PAIGE, CHARLES D.....	45 Thirteenth st.....	clerk
PALM, NELSON.....	25 Fay st.....	gardener
PALMER, CHARLES D.....	129 Fairmount st.....	gentleman
PALMER, SAMUEL B.....	394 Beacon st.....	grocer
PARENT, J. GEDEON.....	68 Cabot st.....	hair dresser
PARRADIS, ROBERT C.....	Merrimac House.....	reporter
PARK, ALBERT S.....	22 Wannalancit st....	clerk
PARKER, ARTHUR W.....	306 Pine st.....	builder
PARKER, CHARLES A.....	13 Second st.....	painter
PARKER, THEODORE E., Jr.....	302 Nesmith st.....	manager Tel. Co.
PARKER, PERCY.....	880 Broadway .....	real estate
PARKER, WALTER L.....	270 Wilder st.....	manufacturer
PARKIN, PRESCOTT R.....	596 Beacon st.....	clerk
PARSONS, GEORGE F.....	158 Hale st.....	printer
PARTHENAIS, CHARLES H.....	Merrimac House.....	merchant
PARTHENAIS, WILLIAM A.....	16 Grand st.....	dealer
PATTEN, GEORGE W.....	10 Fifth st.....	florist
PEABODY, ORVILLE W.....	698 School st.....	livery stable

## P

PEARSON, FRED H.....	725 Bridge st.....	boots and shoes
PEARSON, HARRIS C.....	167 Sixth st.....	baker
PELLETIER, EPHREM.....	150 Mt. Vernon st.....	dry goods
PENDERGAST, JOHN H.....	95 Dummer st.....	stone cutter
PENN, CHARLES A.....	227 West London st.....	carpenter
L'EPIN, WILLIAM H.....	540 Merrimack st.....	dentist
PERHAM, HAVEN C.....	19 Wannalancit st.....	agent
PERRON, JOSEPH.....	473 Moody st.....	hair dresser
PERSON, NILS.....	82 London st.....	carpenter
PERSONS, ALBERT C.....	629 Westford st.....	roll coverer
PEVEY, FRANKLIN S.....	68 Dover st.....	iron founder
PEVEY, JAMES A.....	366 Walker st.....	iron founder
PHILBRICK, CALEB.....	389 Walker st.....	teamster
PIERCE, ABNER K.....	419 Chelmsford st.....	painter
PIERCE, CASSIUS W.....	244 Stevens st.....	express
PHIL, CARL G. A. F. W. E.....	45 Fay st.....	engineer
PILLING, HERBERT.....	41 Harvard st.....	shoe manufacturer
PILLING, JOHN B.....	1199 Middlesex st.....	shoe manufacturer
PINAULT, ZEPHRIN R.....	56 Royal st.....	salesman
PINDER, ALBERT L.....	120 Chapel st.....	carpenter
PINGREE, HERBERT W.....	10 Varnum av.....	carpenter
POLLARD, ARTHUR G.....	110 Mansur st.....	merchant
POLLARD, HARRY G.....	110 Mansur st.....	merchant
POORE, FRANK A.....	26 Walnut st.....	machinist
POTTER, WILLIAM H.....	290 Pine st.....	clerk
POWERS, JOHN.....	169 Broadway .....	laborer
POWERS, JOHN T.....	27 Pleasant st.....	hairdresser
PRESCOTT, DUDLEY M.....	23 Oak st.....	plasterer
PRESCOTT, FRED M.....	68 Mt. Washington st.....	clerk
PRESTON, BENJAMIN.....	174 Warren st.....	dyer
PRINCE, ARTHUR D.....	5 Simpson st.....	news dealer
PRINCE, GEORGE C.....	5 Simpson st.....	picture framer

## P

PROCTOR, FRED W.....	57 Walker st.....	job express
PUFFER, FRED A. A.....	62 Highland st. ....	de. r
PUFFER, FREEMAN W.....	22 Purtt st.....	crookery dealer
PUFFER, JAMES F.....	18 May st.....	furniture dealer
PUFFER, STEPHEN B.....	942 Middlesex st.....	manufacturer
PUTNAM, ADDISON, Jr.....	194 Nesmith st.....	merchant
PUTNAM, FRANK E.....	1210 Middlesex st.....	restaurant
PUTNAM, GEORGE E.....	26 Read st.....	produce dealer

## Q

QUINN, JOHN J.....	7 Howe st.....	operative
QUINN, MICHAEL.....	14 Fort Hill ave.....	woolen weaver
QUINN, THOMAS F.....	3 rd. 101 High st.....	operative
QUINN, THOMAS F.....	511 Lawrence st.....	steam fitter
QUIRK, WILLIAM.....	185 Adams st.....	operative

## R

RAMSDELL, DANIEL W.....	94 D st.....	teamster
RANDLETT, FRED M.....	8 Gates st.....	fish dealer
RANDLETT, ORRIN B.....	353 Wilder st.....	grocer
READ, WILLIAM A.....	228 Liberty st.....	salesman
REARDON, PATRICK.....	rear 95 Dummer st.....	fireman
REDDING, DANIEL.....	45 Adams st.....	jobbing
REDMOND, EDWARD L.....	37-3 Bartlett st.....	clerk
REDMOND, JAMES J.....	37-3 Bartlett st.....	loom fixer
REED, FRANK T.....	1096 Bridge st.....	fireman
REILLY, JOHN J.....	95 Coburn st.....	weaver
REYNOLDS, BERNARD.....	84 Common st.....	barber
RICARD, FRANCOIS X.....	255 Salem st.....	jeweler
RICE, HARRY R.....	134 Liberty st.....	manager
RICHARD, ULYSSES S.....	691 Merrimack st.....	veterinary surgeon
RICHARDSON, ALBERT J.....	161 Hildreth st.....	shuttle maker
RICHARDSON, EDWARD J.....	40 Lincoln st.....	clerk

## R

RICHARDSON, HARRY T. B.....	35 Seventh st.....	baker
RICHARDSON, HENRI E.....	1460 Middlesex st.....	clerk
RICHARDSON, JOHN H.....	16 Webster av.....	grinder
RICHARDSON, WILLIAM W.....	7 Willie st.....	grocer
RILEY, JOHN.....	110 Lewis st.....	laborer
RIORDAN, JOHN H.....	136 Fort Hill av.....	insurance
RIORDAN, PATRICK H.....	252 Pawtucket st.....	machinist
ROARK, ANDREW.....	455 Market st.....	blacksmith
ROARK, JOHN J.....	28 Lyon st.....	clerk
ROARK, MILES H.....	28 Lyon st.....	insurance agent
ROBBINS, CHARLES H.....	62 Twelfth st.....	tobacconist
ROBBINS, HERBERT E.....	62 Twelfth st.....	clerk
ROBINSON, JAMES P.....	401 Lincoln st.....	moulder
ROGERS, JOHN F.....	29 Cedar st.....	undertaker
ROLLINS, WINSTON I.....	33 Fourth st.....	dealer
ROOT, GEORGE B.....	22 Fourth st.....	salesman
ROPER, GEORGE A.....	335 Walker st.....	clerk
ROUNTREE, ALEXANDER E.....	177 Pleasant st.....	clerk
ROWLANDSON, WILLIAM E.....	203 Pleasant st.....	dye
ROY, LAURENT R.....	40 Dane st.....	plumber
RUNELS, CHARLES.....	321 Thorndike st.....	contractor
RUNELS, GEORGE H.....	133 Princeton st.....	clerk
RUSSELL, ASA C.....	331 Wilder st.....	manufacturer
RUSSELL, EUGENE G.....	226 Gibson st.....	real estate
RUSHWORTH, CHARLES B.....	58 South Loring st.....	agent
RUTHERFORD, JOSEPH H.....	342 Westford st.....	furniture dealer
RYAN, ALBERT J.....	64 Hanks st.....	real estate
RYAN, JEREMIAH.....	779 Westford st.....	tinsmith
RYAN, JOHN.....	789 Westford st.....	brass founder

## S

SALMON, EDWARD A.....	186 School st.....	overseer
SANBORN, EDWARD P.....	79 Royal st.....	builder
SANBORN, EDWIN.....	256 East Merrimack st.....	carriage maker



## S

SANBORN, FRED W.....	44 Fred st.....	carpenter
SANBORN, WALTER E.....	79 Royal st.....	clerk
SAUNDERS, ARTHUR W.....	94 Twelfth st.....	manufacturer
SAUNDERS, FRANCIS E.....	119 Middlesex st.....	overseer
SAUNDERS, ORLANDO.....	87 Nesmith st.....	agent
SAWYER, JOHN F.....	39 Methuen st.....	cashier
SAWYER, ORRIN A.....	761 Broadway .....	inventor
SAWYER, WESLEY.....	222 Lincoln st.....	gentleman
SAXE, ROBERT G.....	79 Appleton st.....	boarding house keeper
SCANNELL, BARTHOLOMEW.....	535 Westford st.....	boiler maker
SCANNELL, CORNELIUS.....	62 Cambridge st.....	boiler maker
SCOTT, FRANK.....	59 French st.....	overseer
SCOTT, JAMES.....	172 School st.....	gentleman
SCOTT, SAMUEL.....	30 Cabot st.....	dealer
SCRIBNER, GEORGE A.....	158 Westford st.....	machinist
SEETON, ROBERT B.....	30 Third av.....	brass worker
SEETER, WILLIAM F.....	233 Cabot st.....	overseer
SHANNESSEY, GEORGE W....	rear 592 Gorham st.....	wheelwright
SHARROW, FREDERICK S.....	16 Walnut st.....	tailor
SHAW, FRANCIS E.....	698 Westford st.....	gentleman
SHAW, RALPH H.....	225 Liberty st.....	clerk
SHEA, EUGENE A.....	69 D st.....	plumber
SHEDD, FREEMAN B.....	396 Andover st.....	manufacturer
SHEEHY, JAMES.....	66 Andover st.....	dealer
SHEPHERD, ROBERT J.....	358 Concord st.....	B. & M. R. R.
SHERBURNE, JOHN W.....	55 Marlborough st.....	druggist
SHERMAN, ARTHUR W.....	47 Grace st.....	clerk
SHERMAN, EDWARD S.....	59 Huntington st.....	clerk
SHERMAN, LEONARD F.....	148 Princeton st.....	manufacturer
SHERWOOD, FRANK J.....	79 Vernon st.....	glue manufacturer
SILVER, EDWARD H.....	74 Thorndike st.....	manufacturer
SILVER, FRED W.....	94 South Loring st.....	machinist



## S

SIMMONS, RALPH A.....	746 Broadway.....	clerk
SUMONDS, FRANK J.....	170 Pleasant st.....	editor
SIMPSON, JOHN A.....	67 Methuen st.....	contractor
SLATER, JOSEPH F.....	611 Wilder st.....	gentleman
SMART, CHARLES D.....	104 D st.....	grocer
SMILEY, SYLVANUS C.....	19 Washington st.....	gentleman
SMITH, CALEB L.....	878 Chelmsford st.....	grocer
SMITH, CHESTER F.....	270 Gibson st.....	salesman
SMITH, DAVID W.....	69 French st.....	machinist
SMITH, ETHAN A.....	84 Marlborough st.....	real estate
SMITH, FREDERICK A.....	13 Kinsman st.....	laborer
SMITH, HENRY.....	56 Perry st.....	barber
SMITH, JAMES.....	24 Branch st.....	stone mason
SMITH, LORENZO E.....	122 Mammoth road.....	bookkeeper
SNOW, SMAUEL D.....	39 Liberty st.....	painter
SNOW, SAMUEL E.....	39 School st.....	mason
SOPER, MELVIN L.....	25 Burlington av.....	hair dresser
SOROGHAN, NICHOLAS.....	35 Pleasant st.....	tailor
SOUTHWORTH, WILLIAM S.....	63 Kirk st.....	mill agent
SPALDING, WILLIAM B.....	1 Center st.....	real estate
SPALDING, WILLIAM H.....	86 Thorndike st.....	merchant
SPEAR, FREDERICK A.....	576 Westford st.....	agent
SPIERS, JAMES A.....	23 Philips st.....	pattern maker
SPRAGUE, JOHN M.....	76 Chapel st.....	gentleman
SPROAT, FRANK E.....	57 Claire st.....	operative
STACEY, DUANE P.....	75 Beacon st.....	clerk
STACK, FRANK P.....	303 Hildreth st.....	painter
STAFFORD, EBEN B.....	301 Mammoth road.....	overseer
STAFFORD, WILLIAM H.....	9 Meadowcroft st.....	janitor
STAPLES, GEORGE N.....	30 Washington st.....	clerk
STEPHENSON, SAMUEL G.....	47 So. Walker st.....	draughtsman
STERNBERG, ISRAEL H.....	142 West Sixth st.....	reporter

## S

STEVENS, C. BROOKS.....	s. s. Andover st.....	treasurer
STEWART, JOHN W.....	45 Thirteenth st.....	plumber
STILES, PERRY P.....	15 Varney st.....	grocer
STIMPSON, WALTER W.....	441 Dutton st.....	machinist
STOCKS, HARRY.....	141 Parkview av.....	bookkeeper
STOCKMAN, EDWARD.....	1164 Middlesex st.....	lumber surveyor
STOPHERD, ALBERT.....	29 Bassett st.....	second hand
STOREY, JOHN A.....	634 Westford st.....	dry goods
STOTT, CHARLES A.....	173 Nesmith st.....	manufacturer
STOTT, JOHN W.....	36 Marlborough st.....	accountant
STOUGHTON, WILLIS H.....	525 Chelmsford st.....	job express
STOWELL, CHARLES H.....	99 Fairmount st. ....	J. C. Ayer Co.
STOWELL, FRANK E.....	179 Foster st.....	undertaker
STOTT, THOMAS.....	282 Pawtucket st.....	manufacturer
STRATTON, TORREY E.....	167 Stevens st.....	clerk
STURTEVANT, CHARLES S.....	532 Westford st.....	musician
STURTEVANT, Z. WINCHELL.....	277 Gibson st.....	superintendent
SULLIVAN, CORNELIUS F.....	113 Pleasant st.....	barber
SULLIVAN, DENNIS A.....	578 Market st.....	piper
SULLIVAN, FRANK J.....	45 Wamesit st.....	clerk
SULLIVAN JAMES A.....	95 Mt. Washington st.....	clerk
SULLIVAN, JAMES F.....	318 Adams st.....	laborer
SULLIVAN, JOHN E.....	58 Corbett st.....	B. & M. R. R.
SULLIVAN, MARTIN W.....	16 Lagrange st.....	carpenter
SULLIVAN, MICHAEL.....	180 Broadway .....	operative
SULLIVAN, MICHAEL E.....	330 Concord st.....	barber
SWAN, DANIEL A.....	486 E. Merrimack st.....	merchant
SWAN, JOSEPH C.....	142 Andover st.....	gentleman
SWAN, ALBERT J.....	23 Congress st.....	clerk
SWEATT, ALBION.....	62 Eighteenth st.....	carpenter
SWEATT, ELLSWORTH E.....	432 Hildreth st.....	carpenter
SWIFT, LEWIS H.....	25 Nicollet st.....	clerk
SYKES, LOUIS B.....	74 London st.....	clerk

## T

TAFF, RICHARD.....	262 Fayette st.....	manufacturer
TAYLOR, FRANK B.....	7 Harrison st.....	mason
TAYLOR, GEORGE C.....	166 Fairmount st.....	merchant
TAYLOR, GEORGE H.....	29 Twelfth st.....	C. I. Hood & Co.
TAYLOR, GEORGE H.....	41 Nichols st.....	stable keeper
TAYLOR, LUKE B.....	8 Wachusett st.....	weaver
TEEL, GEORGE M.....	147 Warwick st.....	clerk
THISSELL, OVA N.....	83 Midland st.....	driver
THOMAS, EDWARD W.....	166 Pawtucket st.....	mill agent
THOMPSON, HENRY M.....	298 Pawtucket st.....	manufacturer
THOMPSON, WILLIAM M.....	3 Bachelder place.....	ice man
THORNE, JOHN Jr.....	136 Walker st.....	clerk
TIGHE, JOHN.....	190 Tilden st.....	operative
TILTON, CHARLES E.....	57 South Walker st.....	compositor
TILTON, FREDERICK N.....	57 South Walker st.....	printer
TIMMINS, FREDERICK J.....	75 Westford st.....	clerk
TITUS, AFTON G.....	46 Barclay st.....	checker B. & M. R. R.
TONDRA, JOHN.....	605 Broadway .....	mule spinner
TREPANIER, J. EDMOND.....	11 Willie av.....	motorman
TRUE, DAVID.....	420 Lincoln st.....	carpenter
TRUE, MITCHELL C.....	606 Westford st.....	clerk
TUMELTY, CHARLES F.....	18 Burns st.....	clerk
TURGEON, LOUIS, Jr.....	25 Race st.....	druggist
TURNER, JOHN D.....	42 Columbus av.....	machinist
TUTHILL, BENJAMIN F.....	9 Eighteenth st.....	insurance agent
TYRRELL, JOHN E.....	483 Lawrence st.....	dealer

## U

UNDERWOOD, GEORGE H.....	64 So. Whipple st.....	spinner
UPTON, CHARLES T.....	63 Mt. Vernon st.....	superintendent
URANN, CHARLES F.....	408 Lincoln st.....	foreman

## V

VARNEY, EDWARD S.....	20 Ash st.....	printer
VARNEY, MANLEY H.....	14 Harding st.....	clerk
VARNUM, CHARLES F.....	75 Smith st.....	carpenter
VARNUM, DANIEL H.....	697 Bridge st.....	real estate
VARNUM, LEAVITT R. J.....	Merrimack House.....	real estate
VARNUM, THOMAS.....	470 Varnum av.....	farmer
VAUGHN, PATRICK P.....	14 Leverett st.....	plumber
VIGEANT, PAUL.....	20 Dodge st.....	hay and grain
VIGEANT, TIMOTHEE.....	789 Moody st.....	grocer
VINCENT, JOHN.....	94 Ford st.....	provisions
VINEY, WILLIAM B.....	22 Tyler st.....	clerk
VINING, ALONZO H.....	71 Mammoth road.....	carpenter
VINING, HIRAM.....	36 Fourth av.....	carpenter

## W

WADLEIGH, JUDE C.....	139 Hildreth st.....	superintendent
WAHLGREN, CARL A.....	134 Gorham st.....	cigar maker
WALCH, ARTHUR E.....	16 Columbus av.....	drug clerk
WALCOTT, FRANK P.....	199 Mammoth road.....	overseer
WALKER, THOMAS C.....	80 Chestnut st.....	druggist
WALLACE, TIMOTHY J.....	13 Richmond av.....	laborer
WALSH, ALONZO G.....	419 Andover st.....	broker
WALSH, JOHN F.....	5 Watson st.....	operative
WALSH, THOMAS.....	104 Eleventh st.....	superintendent
WALSH, WILLIAM H.....	86 Congress st.....	dye
WARREN, CHARLES H.....	25 Princeton st.....	dealer
WARREN, JEREMIAH F.....	27 Cross st.....	painter
WARREN, OSCAR E.....	286 Worthen st.....	operative
WASHBURN, CHARLES D.....	84 West Sixth st.....	grocer
WASHBURN, GEORGE B.....	67 Whitney av.....	reporter
WATSON, GEORGE.....	689 Merrimack st.....	baker
WATSON, GEORGE B.....	30 First st.....	clerk
WEAVER, FRANK L.....	229 Stevens st.....	roofer



## W

WEBSTER, HERBERT E.....	251 Foster st.....	salesman
WEIGHT, FRANCIS W.....	29 Second av.....	machinist
WELCH, WILLIAM F.....	34 Cedar st.....	carpenter
WELCH, WILLIAM H.....	1577 Middlesex st.....	laborer
WELLMAN, FRED W.....	111 Stevens st.....	gentleman
WELLMAN, GEORGE A.....	111 Stevens st.....	gentleman
WESTWOOD, JOHN S.....	10 Simpson place.....	druggist
WHEELER, ALBERT H.....	710 Merrimack st.....	merchant
WHEELER, DANIEL C.....	725 Bridge st.....	shuttle maker
WHELTON, MATTHEW.....	283 School st.....	clerk
WHITCOMB, IRVING.....	48 South Walker st.....	dealer
WHITE, HENRY G.....	131 Grove st.....	clerk
WHITE, HERBERT R.....	80 Livingston av.....	salesman
WHITE, WILLIAM T.....	66 Huntington st.....	manufacturer
WHITEKNACT, JAMES H.....	221 Lincoln st.....	shuttle maker
WHITMAN, CHARLES W.....	244 Liberty st.....	foreman
WHITTET, CHARLES A.....	92 Grand st.....	florist
WHITTIER, STEPHEN T.....	17 Davenport st.....	paymaster
WIGHT, GEORGE H.....	93 Durant st.....	piper
WIGGIN, BURTON H.....	65 Harvard st.....	contractor
WILCOX, FRED A.....	4 Barton av.....	clerk
WILDER, CHARLES W.....	291 Wilder st.....	dealer
WILDER, OLIVER D.....	6 Coral st.....	grain dealer
WILDER, WILLIAM F.....	20 Huntington st.....	merchant
WILEY, WALTER P.....	255 Liberty st.....	water works
WILLIAMS, BENJAMIN.....	456 Fletcher st.....	operative
WILLIS, WILLIAM T.....	307 Thorndike st.....	stone mason
WILLMAN, CLARENCE T....	rear 1021 Central st.....	second hand
WILLMAN, DAVID Jr.....	8 Hale st.....	wool sorter
WILSON, JOSEPH M.....	22 Seventh av.....	butcher
WILSON, LEONARD.....	32 Brooks st.....	teamster
WINN, CHARLES E.....	346 Jackson st.....	manufacturer

## W

WINN, JOHN J.....	29	South Whipple st.....	mattress maker
WOOD, EDWARD N.....	43	Wannalancit st.....	grain dealer
WOOD, GEORGE H.....	176	Branch st.....	jeweler
WOOD, MILLARD F.....	51	Whitney av.....	jeweler
WOODWORTH, HENRY P.....	14	Oakland st.....	lumber dealer
WOTTON, CHARLES A.....	26	Loring st.....	laundryman
WRAGG, THOMAS.....	13	Methuen st.....	overseer
WRIGHT, ATWILL F.....	280	Appleton st.....	retired
WRIGHT, FRANK B.....	57	Willow st.....	carpenter
WRIGHT, HERBERT A.....	27	Warwick st.....	clerk
WRIGHT, WALTER G.....	27	Osgood st.....	machinist
WYMAN, MOSES.....	169	Middlesex st....	lodging house

## Y

YORKE, JOSEPH B.....	33	Dover st.....	pressman
YOUNG, ARTEMUS S.....	73	Beech st.....	foreman
YOUNG, JAMES A.....	535	Broadway .....	motorman





